PHISON Financial Results & Company Outlook 2023 Fourth Quarter

K.S. Pua | CEO of Phison

March 8, 2024

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Forward-Looking Statement

Information included in this earning meeting that are not historical in nature are "forward looking statements". Phison cautions readers that forward looking statements are based on Phison'sreasonable knowledge and current expectations and are subject to various risks and uncertainties. Actual results may differ materially from those contained in such forward looking statements for a variety of reasons including without limitation, risks associated with demand and supply change, manufacturing and supply capacity, design win, time to market, market competition, industrial cyclicality, customer's financial condition, exchange rate fluctuation, legal actions, amendments of the laws and regulations, global economy change, natural disasters, and other unexpected events which may disrupt Phison'sbusiness and operations. Accordingly, readers should not place reliance on any forward-looking statements. Except as required by law, Phison undertakes no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.



Executive Summary



Phison's Business Transformation



Financial Results



Business Highlights



Technology Leadership Update







1 Phison's Business Transformation

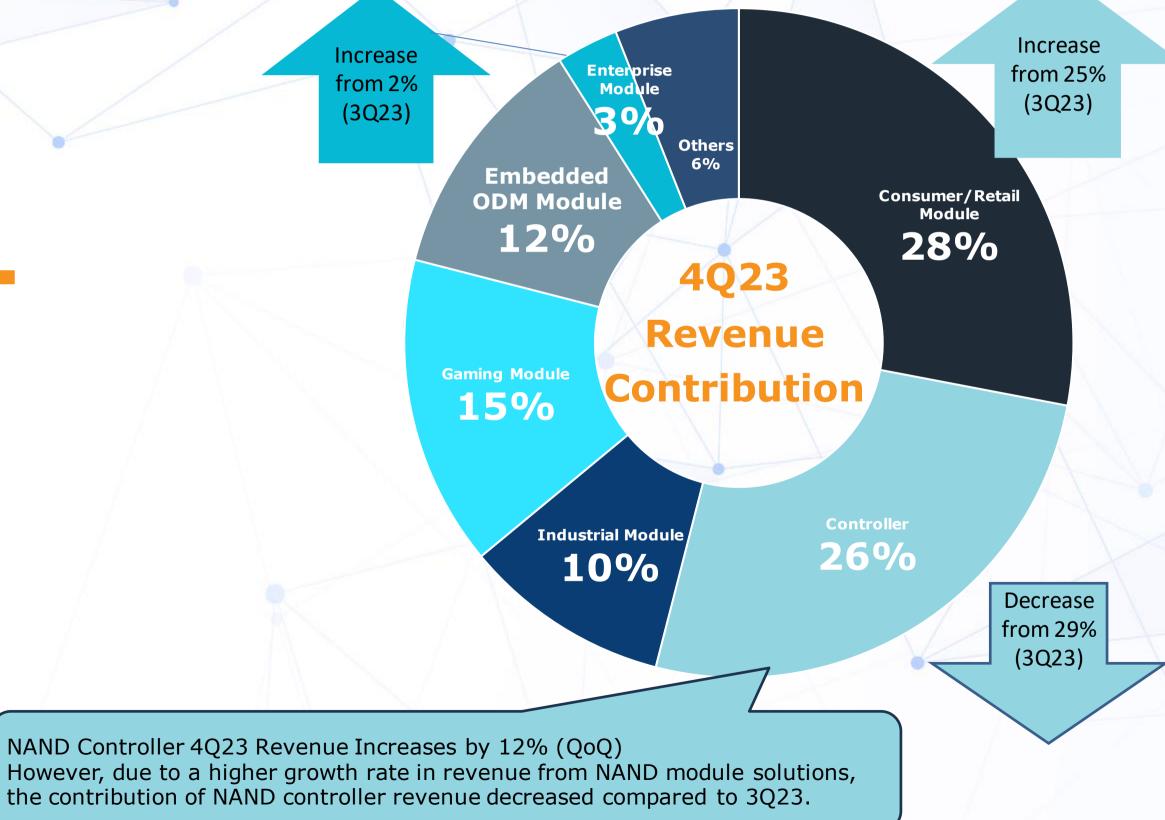


Phison's Non-consumer Deployment Reduces NAND Market Fluctuation Impact

Revenue from Non-consumer/retail Products

Note: Controller Revenue Contribution includes both direct shipments and controllers applied to modules.





2 4Q23 Financial Results



4Q23 Revenue and Gross Profit

4Q23 Revenue

Revenue up 28.1% YoY Revenue up 27.1% QoQ

Revenue in \$NT



4023 Gross Profit

Gross profit up 64.5% YoY Gross profit up 42.2% QoQ All-time high

2023 full-year Revenue and Gross Profit

Revenue 5482222B

Revenue down 20% YoY

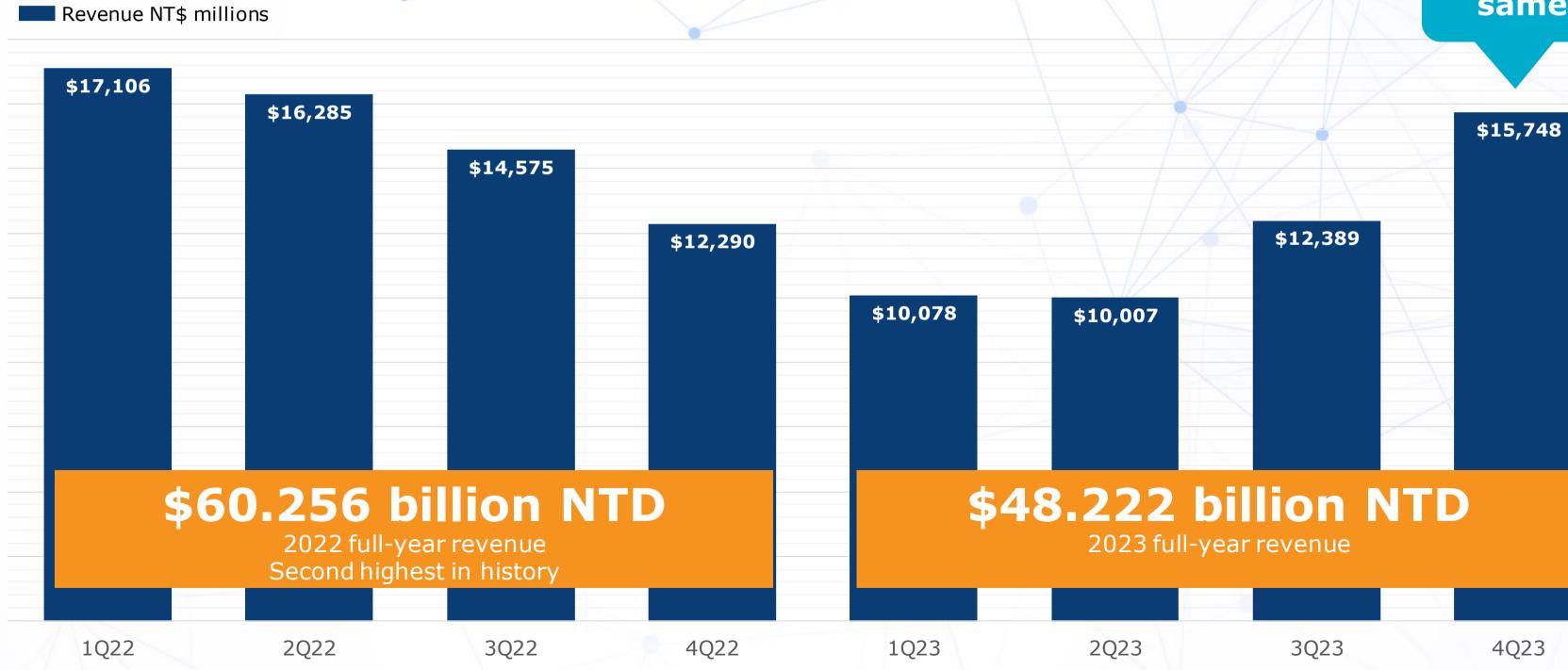
Revenue in \$NT



Gross Profit \$16141B

Gross profit down 7.1% YoY 3rd high in history record

Revenue Trend

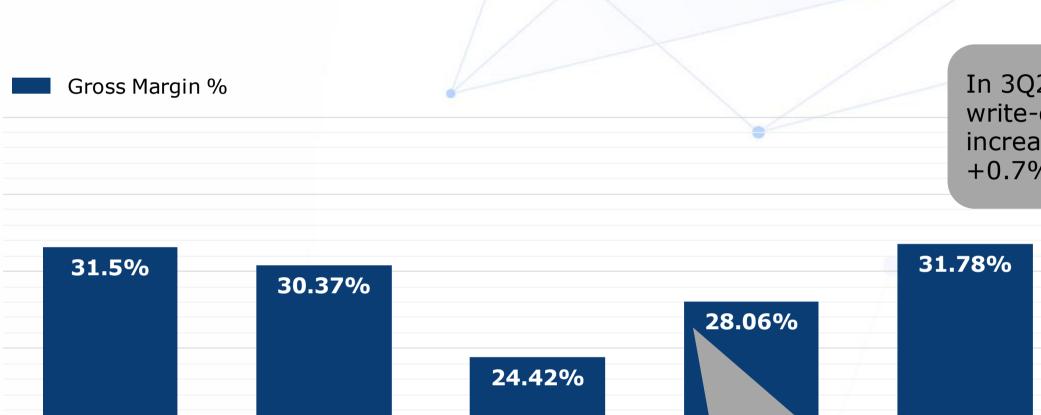


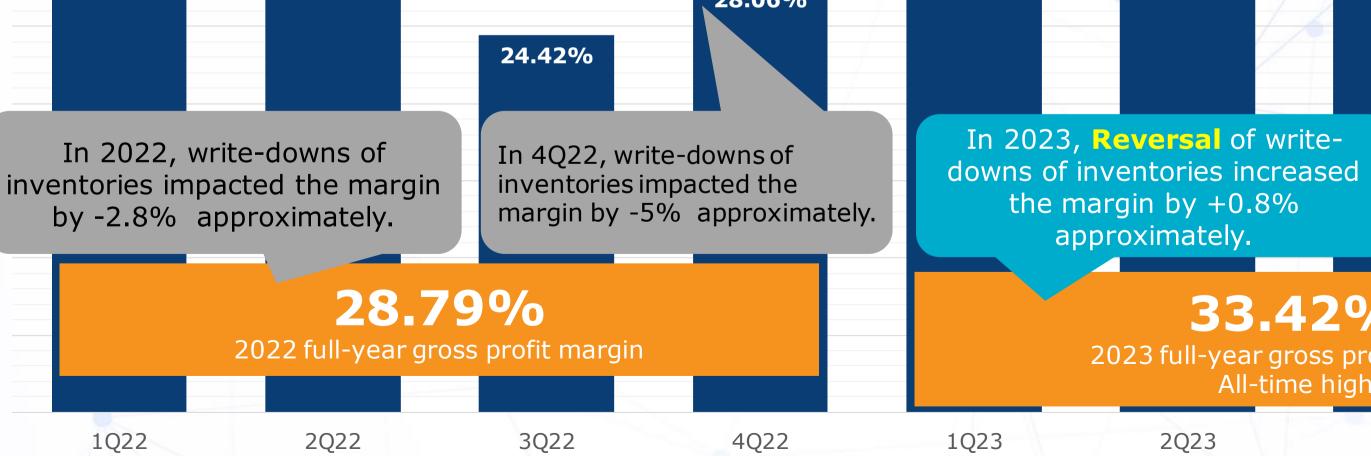




23	2Q23	3Q23	4Q23	
		СО	NFIDENTIAL 4Q23 Fir	ancial Results

Gross Margin Rate Trend





Note:

By the accounting rule, we evaluate the lower of cost and the market price (LCM) to reserve the allowance of inventory price loss. When the market price hiking, we will reversal the allowance of inventory price loss.



In 3Q23, Reversal of write-downs of inventories increased the margin by +0.7% approximately.

32.48%

All-time high

36.02%

In 4Q23, Reversal of write-downs of inventories increased the margin by +1.4% approximately.

33.42%

2023 full-year gross profit margin All-time high

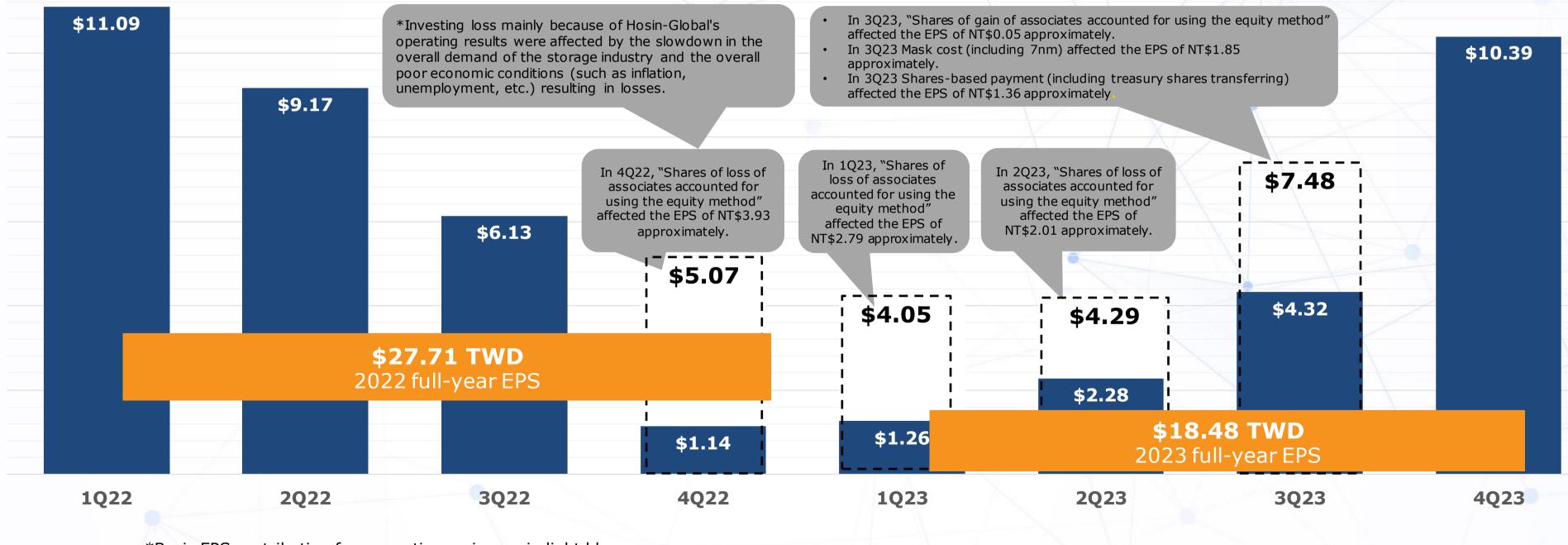
3Q23

32.20%

4Q23

Earnings Per Share Trend

In \$NT



*Basic EPS contribution from one-time gain was in light blue.



The associates accounted for using the equity method-HSG turns to be profitable for 2023 full-year.

4Q23 Income Statement Highlights

Taiwan-International Financial Reporting Standards (TIFRS)

NT\$mn	4Q23	3Q23	4Q22	Q/Q (%)	Y/Y (%)
Revenue in US\$Mn	493	393	392	25.4	25.8
Revenue	15,748	12,389	12,290	27.1	28.1
Gross Profit	5,673	3,989	3,449	42.2	64.5
Marketing Exp.	391	325	334		
General & Adm. Exp.	355	238	204		
Research & Development	3,426	2,896	1,644		
Expected credit losses	(40)	5	24		
Operating Expenses	4,132	3,464	2,205	19.3	87.4
Operating Profit	1,541	525	1,243	193.5	24.0
Non-Operating gains (losses)	642	427	(1,082)		
Pretax Income	2,183	952	161	129.3	1255.9
Tax Expenses	99	94	(56)		
Net Income to Phison	2,084	858	217	142.9	860.4
Basic EPS (NT\$)	10.39	4.32	1.14		
Key Financial Ratios (%)					
Gross Margin	36.0%	32.2%	28.1%		
Operating Margin	9.8%	4.2%	10.1%		
Net Profit Margin	13.2%	6.9%	1.8%		
Average Exchange RateUSD/NTD	31.15	30.93	29.80		

Revenue in NTD: QoQ is increased 27.1%. Revenue in USD: QoQ is increased 25.4%.

In 4Q23, The margin was 36.02% (record high of a single quarter). The reversal of allowance for inventory LCM affected the margin by +1.4%approximately.

4Q23 OPEX was higher than 3Q23. Due to mask cost (NT\$0.2bn), and higher employee compensation reserved base on higher profit before taxes. Phison keeps investing in research and development to maintain technological leadership.

The non-operating gains in 4Q23 mainly for recognizing the gains of investments for using the equity, the losses of forex and the gains from finance assets valuations.

*EBITDA which takes earnings and adds back interests, taxes, and depreciation/amortization charges.



All-time high

The 3rd high in a single quarter

FY23 Income Statement Highlights Taiwan-International Financial Reporting Standards (TIFRS)

NT\$mn	2023	2022	Y/Y (%)
Revenue in US \$Mn	1,545	2,043	(24.4)
Revenue	48,222	60,256	(20.0)
Gross Profit	16,114	17,350	(7.1)
Marketing Exp.	1,277	1,268	
General & Adm. Exp.	960	1,044	
Research & Development	10,306	8,131	
Expected credit losses	(51)	63	
Operating Expenses	12,492	10,506	18.9
Operating Profit	3,622	6,844	(47.1)
Non-Operating gains (losses)	477	(547)	
Pretax Income	4,099	6,297	(34.9)
Tax Expenses	475	896	
Net Income to Phison	3,624	5,401	(32.9)
Basic EPS (NT\$)	18.48	27.71	
Key Financial Ratios (%)			
Gross Margin	33.4%	28.8%	
Operating Margin	7.5%	11.4%	
Net Profit Margin	7.5%	9.0%	
Average Exchange RateUSD/NTD	31.15	29.80	

2023 full-year: Revenue in NTD: YoY is decreased (20%). Revenue in USD: YoY is decreased (24.4%).

2023 full-year: The margin was 33.42% (record high in the same period). The reversal of allowance for inventory LCM increased the margin by 0.8% approximately.

2023 full-year:

OPEX was higher than yearago. Due to higher mask cost, treasury shares transferring and employee compensation reserved. Phison keeps investing in research and development to maintain technological leadership.

2023 full-year:

The non-operating losses mainly for recognizing the losses of investments for using the equity, the gains from finance assets valuations and the forex.



Historical High for the same period

Balance Sheet Highlights Taiwan-International Financial Reporting Standards (TIFRS)

NT\$mn

Total Assets

Cash & Current Financial assets at fair value

Account Receivable

Inventories

Long-term Investments

Net PP&E

Total Liabilities

Current Liabilities

Bonds Payable

Total Equity

BVPS(NT\$)

Key Financial Ratios

A/R Turnover Days

Inventory Turnover Days

ROE (%)

ROA (%)

Cash: the change is a result of operating profit and the management of inventory purchasing.

Inventories: Inventories will be adjusted according to changes in the industry and to maintain a safe level based on operational needs.

Total Equity: the change is a results of the Net profit of 9 months deducting the surplus distribution of 2H22 and 1H23 (NT\$4.5 Cash dividend per share for both periods).



4Q2	23	3Q23	4Q22
	64,963	60,285	59,990
	15,201	15,329	17,819
	9,622	8,599	7,237
	24,410	21,331	20,390
	4,763	3,961	4,443
	7,448	7,453	7,598
	22,175	19,524	22,358
	21,801	14,755	17,599
	-	3,464	3,442
	42,788	40,761	37,632
	213	203	190
	64	67	48
	255	259	170
	9.01	5.24	14.41
	5.87	3.46	8.83

[Supplemental Information]

Reconciliations of TIFRS Results to Non-TIFRS Results

© Forward-Looking Statement

The Non Taiwan International Financial Reporting Standards(Non-TIFRS) results supplemented in this presentation are reconciliation results which exclude the financial impact of share-based payment, tax effect and other items.

The supplemental information is for reference only, and is not a substitute for information based on TIFRS. The final actual surplus distribution will be made in accordance with financial statements based on TIFRS.



Reconciliations of TIFRS Results to Non-TIFRS Results (4Q23)

	NT\$/million	4Q23	3Q23	4Q22	Q/Q (%)	Y/Y (%)
TIFRS	Operating Profit	1,541	525	1,243	193.5%	24.0%
	Operating Profit Margin (%)	9.79%	4.24%	10.12%		
Reconciliations	Shares-based payment	37	342	74		
Non-TIFRS	Operating Profit	1,578	867	1,317	82.0%	19.8%
	Operating Profit Margin (%)	10.02%	7.00%	10.72%		

	Net Income to Phison	2,084	858	217	142.9%	860.4%
TIFRS	Net Incomt (%)	13.23%	6.93%	177%		
	Basic EPS (NT\$)	10.39	4.32	1.14		
Reconciliations	Shares-based payment	37	342	74		
	Tax effect	28	(72)	(5)		
	Net Income to Phison	2,149	1,128	286	90.5%	651.4%
Non-TIFRS	Net Incomt (%)	13.65%	9.10%	2.33%		
	Basic EPS (NT\$)	10.71	5.68	1.50		

Note1: Please note, Non-TIFRS results here is a supplement and not a substitute for the Information based on TIFRS, which excluded the sharebased payment, tax effect and other items. The final actual surplus distribution is based on the financial statements of TIFRS. Note2: The numbers may not equal, it is due to rounding.



Reconciliations of TIFRS Results to Non-TIFRS Results (2023 full-year)

	NT\$/million	2023	2022	Y/Y (%)
TIEDO	Operating Profit	3,622	6,844	(47.1%)
TIFRS	Operating Profit Margin (%)	7.51%	11.36%	
Reconciliations	Shares-based payment	519	360	
	Operating Profit	4,141	7,204	(42.5%)
Non-TIFRS	Operating Profit Margin (%)	8.59%	11.96%	

		Net Income to Phison	3,624	5,401	(32.9%)
1		Net Incomt (%)	7.52%	8.96%	
-		Basic EPS (NT\$)	18.48	27.71	
	Reconciliations	Shares-based payment	519	360	
		Tax effect	(73)	(51)	
	Non-TIFRS	Net Income to Phison	4,070	5,710	(28.7%)
1		Net Incomt (%)	8.44%	9.48%	
1		Basic EPS (NT\$)	20.75	29.29	

Note1: Please note, Non-TIFRS results here is a supplement and not a substitute for the Information based on TIFRS, which excluded the sharebased payment, tax effect and other items. The final actual surplus distribution is based on the financial statements of TIFRS. Note2: The numbers may not equal, it is due to rounding.



Non-TIFRS EPS increased by approximately **NT\$2.27**. The transfer of treasury stocks to employees in **3Q23** had a cost impact, affecting EPS by approximately **NT\$1.1**.

Consolidated Revenue for February 2024

February Revenue 54,665

Revenue up 42% YoY Second highest in history for the same period

Revenue in \$NT



Consolidated Revenue from Jan. to Feb. \$9,751B

Revenue up 58% YoY Second highest in history for the same period

Idea Exchange



Modules Really Low Values?

A Company



To Modules (Adding Values)



From ICs (as Foundation)



N Company











Value-Added System Differentiation IC Design Capability





UE RESUITS.

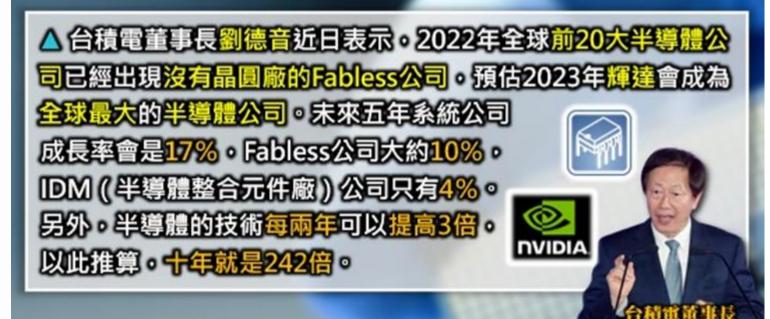
ASP improve Gross Profit improve

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3Q23 Financial Results

TSMC's Mark Liu: In the next five years, the growth rate of system companies will be 17%.

台積電 劉德音:未來五年 系統公司成長率會是**17%**



The trend of IC design companies evolving into "system" companies has become increasingly obvious after the pandemic.

IC design companies, originally serving the role of providing chips, are gradually transitioning into key players offering subsystems, modules, and even taking a leading role in the design of entire end products.

IC設計公司變成「系統」公司的趨勢,在 疫情之後有愈來愈顯著的跡象。

IC設計業者從原先提供晶片的角色,逐步 變成提供子系統、模組,甚至是主導整個 終端產品設計的關鍵角色。

Source:

https://www.digitimes.com.tw/tech/dt/n/shwnws.asp?utm_source=DailyNews&utm_medium=Email&utm_campaign=DT_UTM&id=681989&ct=a

https://youtu.be/YH0DIm5_3FY?si=e8VwlhmDpyleECfz



MediaTek's Rick Tsai: MediaTek is already a system company.

蔡力行:聯發科已是系統公司

Not only MediaTek but also major American IC design companies, including Intel, NVIDIA, Broadcom, Qualcomm, and other players, as well as some IDM (Integrated Device Manufacturer) giants, are all moving in this direction.

不僅聯發科如此,舉凡美系IC設計大廠包括英特爾 (Intel)、NVIDIA、博通(Broadcom)、高通 (Qualcomm)等業者,或是一些IDM大廠,都 往這個大方向發展。



Phison's VALUE Value-Creation Business Model



ASP improve Gross Profit improve

Differentiation Value-Creation

System Module Design

IC Design Capability as the Foundation

3 Business Highlights



Phison is Honored to be Recognized for its Excellence by Micron

Outstanding Supplier Performance Award

Category Semiconductors

Presented to **PHISON**

In recognition and appreciation of your partnership and top performance in 2023



2023 Micron Supplier Award Winner

Category – Semiconductors

PHISON

Micron 4

Phison is Honored to be Recognized for its Excellence by KIOXIA

KIOXIA

SPECIAL AWARD

Kioxia Corporation expresses its sincere

PHISON Electronics Corporation

In recognition of your exceptional contributions and efforts to the development of our business over many years

> In honor of your remarkable contributions, Kioxia Corporation hereby presents this award.

> > December 14th, 2023

KIOXIA Corporation



"The relationship between KIOXIA and Phison has evolved from early supplier cooperation to a special strategic partnership. Together, we have overcome various technical challenges and market demands, and have grown together to this day. In the future, KIOXIA and Phison will continue to deepen and broaden our cooperation, and through our leading-edge technology, we together will "uplift the world with NAND storage products."

KIOXIA

Client SSD Market

Note: TAM (Total Addressable Market) is estimated by market research firms

PHISON





(Image credit: Tom's Hardware)

Incredibly fast storage, ushering in the PCIe 5.0 era



Best OEM SSD Micron 3500 SSD

(Image credit: Micron)

Micron's 3500 1TB SSD might just be among the <u>best SSDs</u> ever made – if not the best – having scored 100% on <u>TweakTown</u> and winning its highly coveted Editor's Choice Award.

Launched in December 2023, this 232-layer NAND SSD, which adopts a M.2 2280 form factor, comes in at 512GB, 1TB and 2TB variations, and features a superb Phison E25 controller that can also be found in the Crucial T500 SSD.



Tom's Hardware Best of 2023 Awards | Tom's Hardware (tomshardware.com) "Simply the best OEM SSD ever made": Micron's new SSD gets glowing reviews thanks to new controller and new NAND — Expect it to come to a workstation PC near you | TechRadar eTeknix Best of 2023 Awards - Page 11 - eTeknix

Automotive Storage

Note: TAM (Total Addressable Market) is estimated by market research firms



15+

Brands of Top 20 Car Makers Adopted Phison Auto Storage Solutions

Mobile Storage

Note: TAM (Total Addressable Market) is estimated by market research firms



Phison Launched UFS Solutions

- UFS 2.2 PS8327: Entry
- UFS 3.1 PS8329: Mid-range
- UFS 3.1 PS8325: High-end
- UFS 4.0 PS8361: Flagship

for Mobile Storage Performance

Elevating Mobile Storage Performance

PHISON UFS Solutions



Gaming Storage

Note: TAM (Total Addressable Market) is estimated by market research firms

PHISON



5 Best M.2 SSDs For Gaming In 2024 (tech4gamers.com)

Enterprise SSD

Note: TAM (Total Addressable Market) is estimated by market research firms



Tier-1 Server Brands Enterprise PCIe 4.0 X1 SSD Design-in





Coming Soon

Industrial Storage

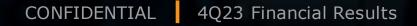


Phison Launched Specialized SSDs for Video and Surveillance Systems

Unleash Precision in Every Frame



Surveillance SSD



Signal Conditioning IC Market





Tier-1 Server Brands Phison PCIe 5.0 Redriver Design-in

Verified Phison PCIe 5.0 Retimer PS7201 PCI-SIG Verification

PCI Express 5.	0					SIG
		Sys	stems with CEM Sl	ot(s)		
Company	Product Name	Identifier	Spec Revision	Max Lane Width Tested	Function	Date Added
Phison	PS7201 PCIe 5.0 Retimer	PS7201 PCIe 5.0 16 lanes retimer	PCle 5.0 at 32GT/s	x16	PCIe 5.0 16 lanes retimer	Sep 25, 2023

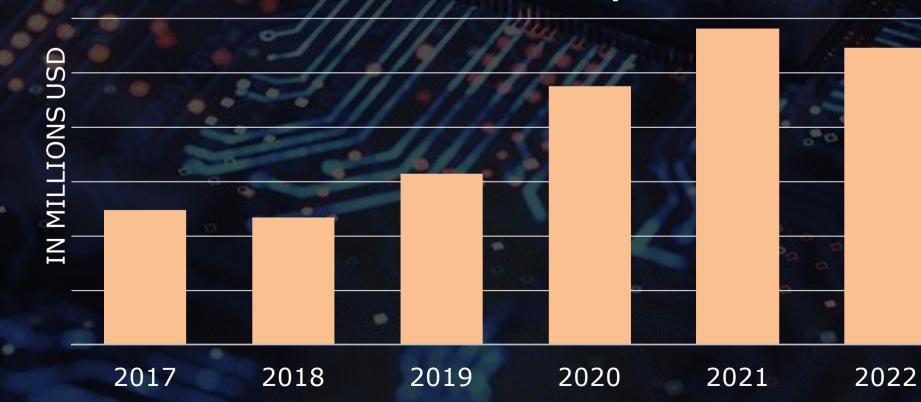
4 Technology Leadership Update



Continue to Strengthen Phison Leading Technology Position

Category	2017	2018	2019	2020	2021	
R&D Headcount						
R&D Exp. / Revenue (%)	9%	9%	11%	14%	13%	
R&D Exp. / Operating Exp.	78%	79%	79%	81%	81%	

Phison R&D Expenses





203

2000+ Global Patents

3800+ Global Employees

75%+ Proportion of Engineers

Note: Global patents including Granted and Pending