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PHISON

Financial Results & Company Outlook 2023 Third Quarter

K.S. Pua | CEO of Phison

November 7, 2023



Forward-Looking Statement

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Executive Summary

- Phison's Business Transformation
- Financial Results
- Business Highlights
- Technology Leadership Update
- 5 Q&A

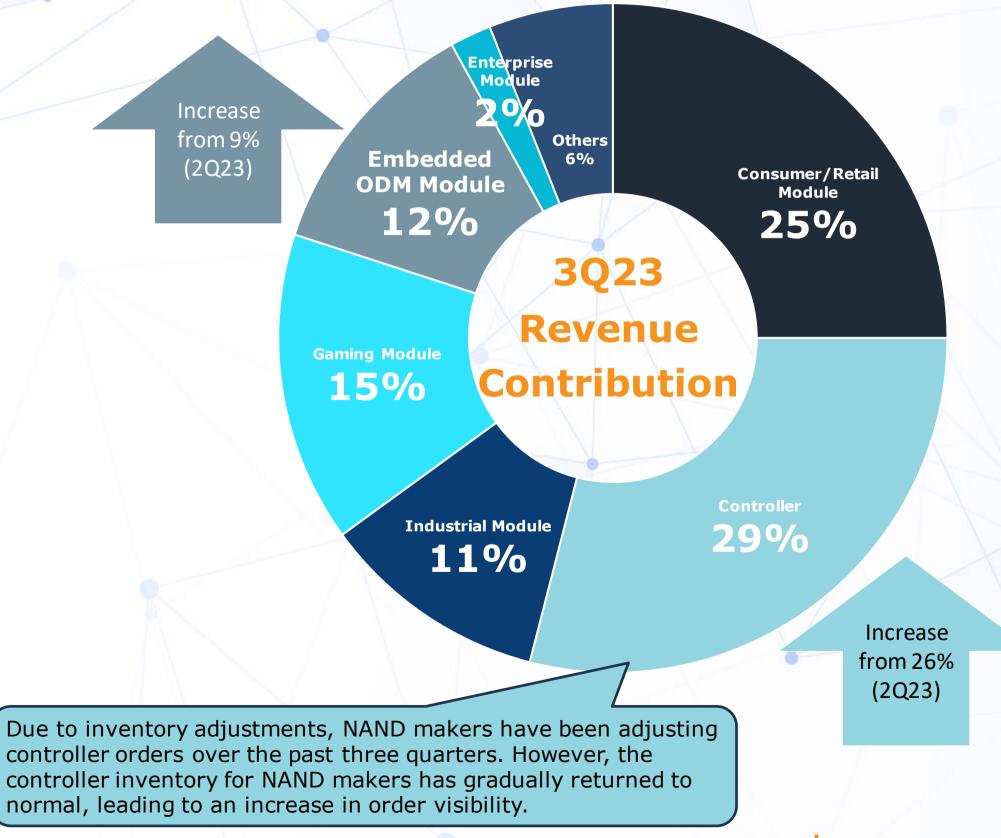


1 Phison's Business Transformation



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 3Q23 Financial Results



3Q23 Revenue and Gross Profit



Revenue down 15.0% YoY Revenue up 23.8% QoQ

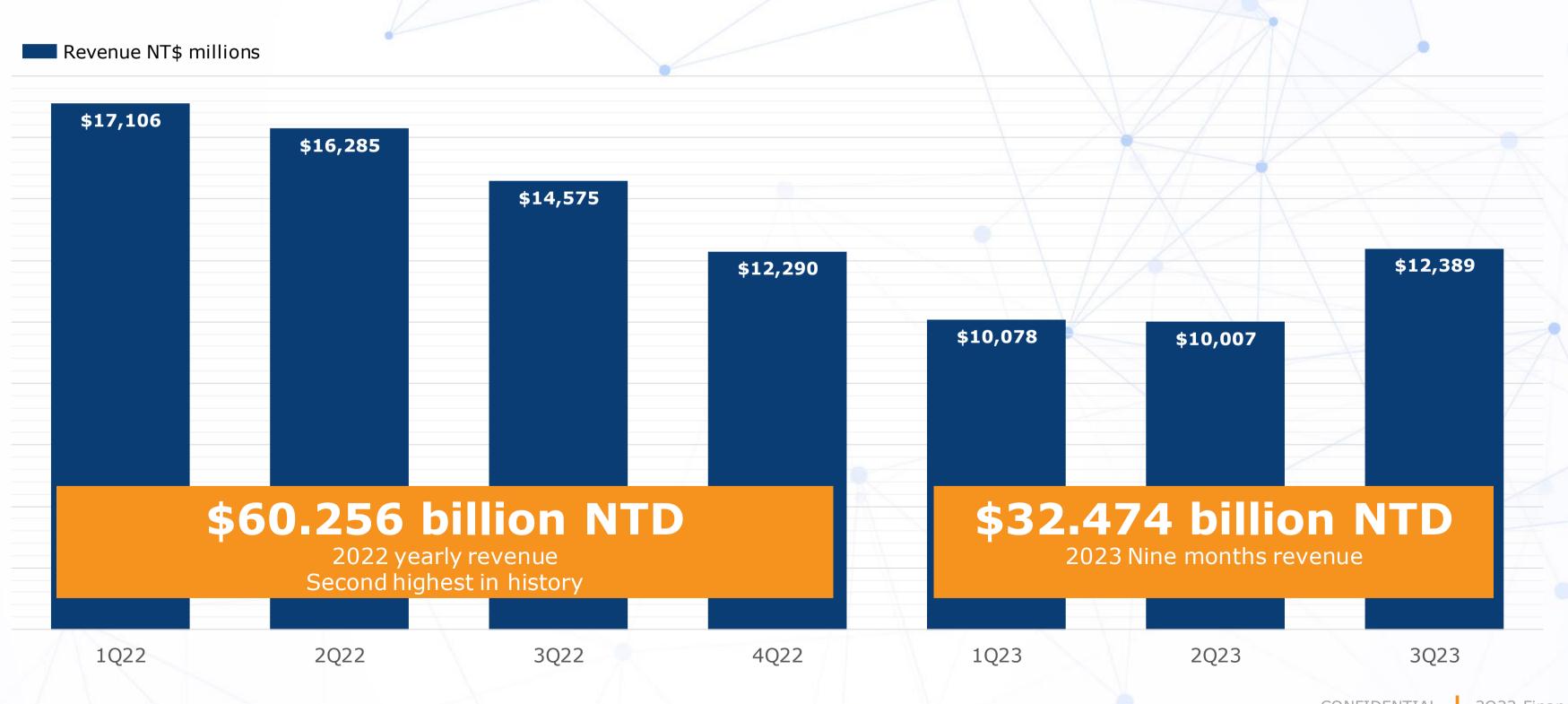
3Q23 Gross Profit

Gross profit up 12.1% YoY Gross profit up 22.7% QoQ

Revenue in \$NT

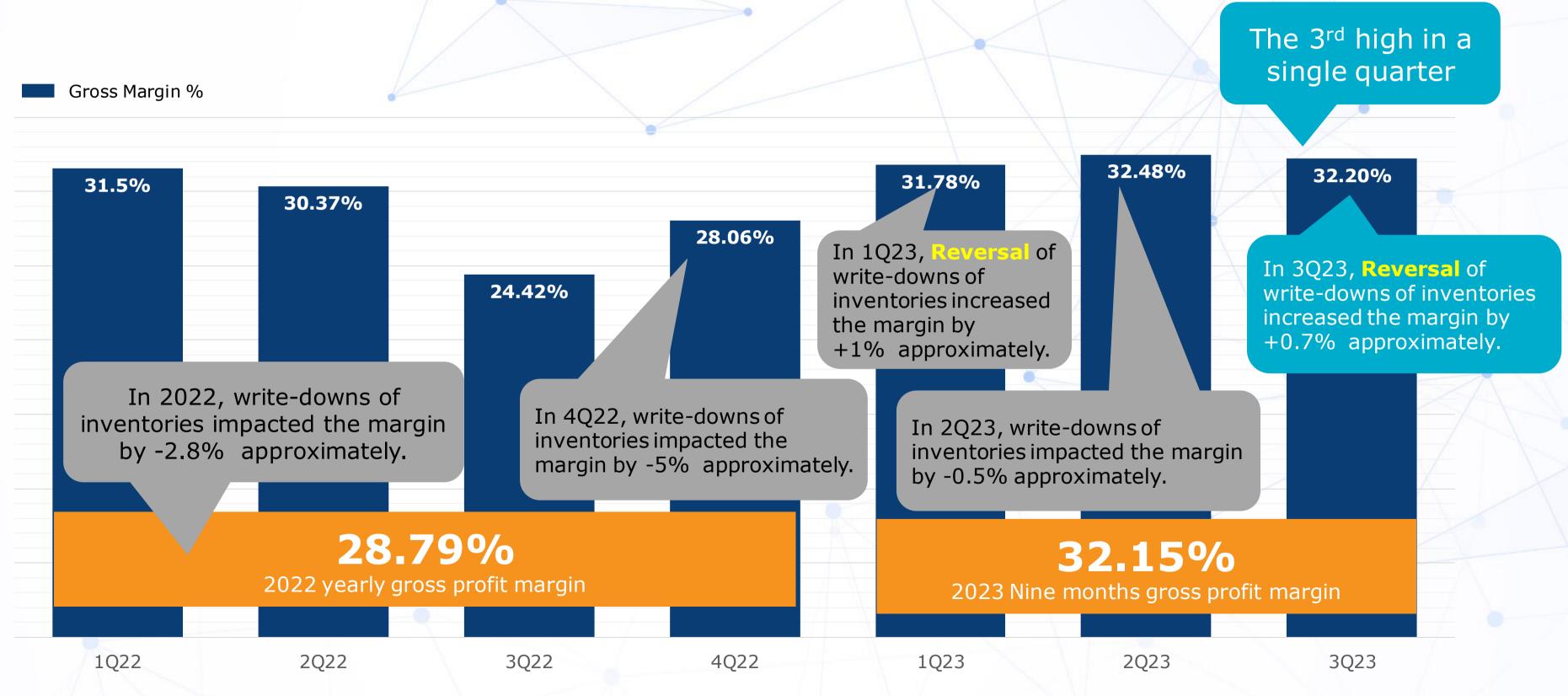


Revenue Trend





Gross Margin Rate Trend



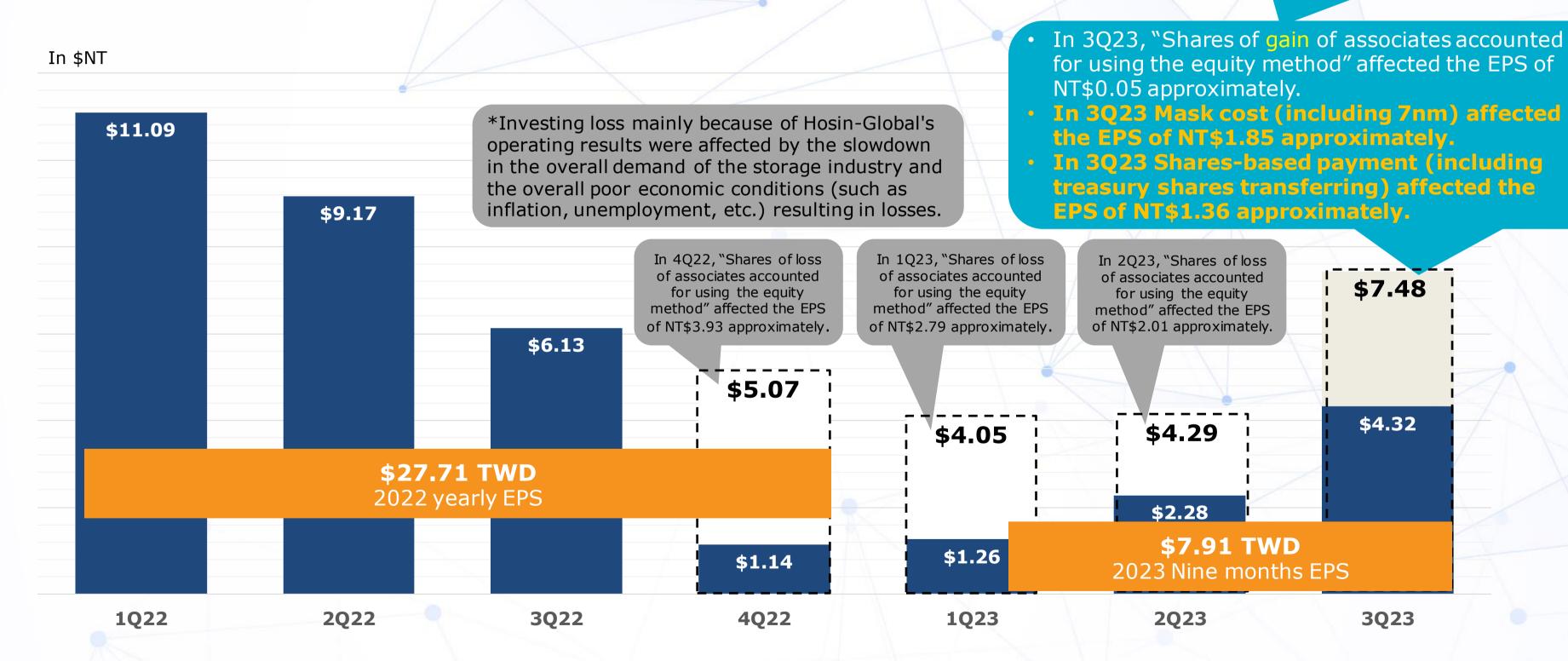
Note:

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.



Earnings Per Share Trend

In 3Q23 the associates accounted for using the equity method turning to be profitable (HSG).



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



3Q23 Income Statement Highlights Taiwan-International Financial Reporting Standards (TIFRS)

single quarter

The 3rd high in a single quarter

The record high in a

Revenue in NTD: QoQ is increased 23.8%.
Revenue in USD: QoQ is increased 19.8%.

In 3Q23, The margin was 32.20%(3rd high of a single quarter). The reversal of allowance for inventory LCM affected the margin by +0.7% approximately.

3Q23 OPEX was higher than 2Q23. Due to increased mask cost (NT\$0.45bn), Shares-based payment (NT\$0.342bn,including treasury shares transferring) and employee compensation reserved. Phison keeps investing in research and development to maintain technological leadership.

The non-operating gains in 3Q23 mainly for the gains of forex and the gains from finance assets valuations.

The lower tax expenses is because of the recognized income tax benefits.

NT\$mn	3Q23	2Q23	3Q22	Q/Q (%)	Y/Y (%)
Revenue in US\$Mn	393	328	482	19.8	(18.5)
Revenue	12,389	10,007	14,575	23.8	(15.0)
Gross Profit	3,989	3,250	3,559	22.7	12.1
Marketing Exp.	325	300	322		
General & Adm. Exp.	238	190	209		
Research & Development	2,896	1,984	1,786		
Expected credit losses	5	59	21		
Operating Expenses	3,464	2,533	2,338	36.8	48.2
Operating Profit	525	717	1,221	(26.8)	(57.0)
Non-Operating gains (losses)	427	(67)	115		
Pretax Income	952	650	1,336	46.5	(28.7)
Tax Expenses	94	209	144		
Net Income to Phison	858	441	1,192	94.6	(28.0)
Basic EPS (NT\$)	4.32	2.28	6.13		
Key Financial Ratios (%)					
Gross Margin	32.2%	32.5%	24.4%		
Operating Margin	4.2%	7.2%	8.4%		
Net Profit Margin	6.9%	4.4%	8.2%		
Average Exchange RateUSD/NTD	30.93	30.55	29.28		

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



FY23-Nine Months Income Statement Highlights

Taiwan-International Financial Reporting Standards (TIFRS)

Historical High for the same period

- For 9 month end of Sept 30.
 Revenue in NTD: YoY is
 decreased 32.3%.
 Revenue in USD: YoY is
 decreased 36.3%.
- For 9 month end of Sept 30. The margin was 32.15% (record high in the same period). The reversal of allowance for inventory LCM increased the margin by 0.47% approximately.
- For 9 month end of Sept 30.
 OPEX was flat to year-ago.
 Due to higher mask cost,
 treasury shares transferring
 and employee compensation
 reserved. Phison keeps
 investing in research and
 development to maintain
 technological leadership.
- For 9 month end of Sept 30. The non-operating losses mainly for recognizing the losses of investments for using the equity, the gains from finance assets valuations and the forex.

		///					
NT\$mn	9 months/23	9 months/22	Y/Y (%)				
Revenue in US \$Mn	1,052	1,651	(36.3)				
Revenue	32,474	47,966	(32.3)				
Gross Profit	10,441	13,901	(24.9)				
Marketing Exp.	886	934					
General & Adm. Exp.	605	839					
Research & Development	6,880	6,488					
Expected credit losses	(11)	39					
Operating Expenses	8,360	8,300	0.7				
Operating Profit	2,081	5,601	(62.8)				
Non-Operating gains (losses)	(165)	535					
Pretax Income	1,916	6,136	(68.8)				
Tax Expenses	375	952					
Net Income to Phison	1,541	5,184	(70.3)				
Basic EPS (NT\$)	7.91	26.42					
Key Financial Ratios (%)							
Gross Margin	32.15%	29.0%					
Operating Margin	6.4%	11.7%					
Net Profit Margin	4.7%	10.8%					
Average Exchange RateUSD/NTD	30.93	29.28					



Balance Sheet Highlights

Taiwan-International Financial Reporting Standards (TIFRS)

1	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).

NT\$mn	3Q23	2Q23	3Q22
Total Assets	60,285	54,049	59,130
Cash & Current Financial assets at fair value	15,329	13,366	14,475
Account Receivable	8,599	6,509	8,825
Inventories	21,331	20,590	21,075
Long-term Investments	3,961	3,654	5,007
Net PP&E	7,453	7,553	7,563
Total Liabilities	19,524	15,461	22,451
Current Liabilities	14,755	10,704	16,581
Bonds Payable	3,464	3,457	3,435
Total Equity	40,761	38,588	36,679
BVPS(NT\$)	203	198	187
Key Financial Ratios			
A/R Turnover Days	67	63	50
Inventory Turnover Days	259	274	163
ROE (%)	5.24	3.58	18.68
ROA (%)	3.46	2.44	11.36



[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

	NT\$/million	3Q23	2Q23	3Q22	Q/Q (%)	Y/Y (%)
TIEDC	Operating Profit	525	717	1,221	(26.8%)	(57.0%)
TIFRS	Operating Profit Margin (%)	4.24%	7.17%	8.38%		
Reconciliations	Shares-based payment	342	66	85		
Non TIEDS	Operating Profit	867	783	1,306	10.7%	(33.6%)
Non-TIFRS	Operating Profit Margin (%)	7.00%	7.82%	8.96%		

	Net Income to Phison	858	441	1,192	94.6%	(28.0%)
TIFRS	Net Incomt (%)	6.93%	4.40%	8.18%		
	Basic EPS (NT\$)	4.32	2.28	6.13		
D 'l' - l'	Shares-based payment	342	66	85		
Reconciliations	Tax effect	(72)	(19)	(18)		
	Net Income to Phison	1,128	488	1,259	131.1%	(10.4%)
Non-TIFRS	Net Incomt (%)	9.10%	4.88%	8.64%		
	Basic EPS (NT\$)	5.68	2.52	6.39		

Note1: Please note, Non-TIFRS results here is a supplement and not a substitute for the Information based on TIFRS, which excluded the share-based 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.



Consolidated Revenue for October 2023

October Revenue

Revenue up 3% MoM

Second highest in history for the same period

Consolidated Revenue from Jan. to Oct. 5376333

Revenue down 27% YoY

Revenue in \$NT





Modules Really Low Values?

A Company









To Modules
(Adding Values)

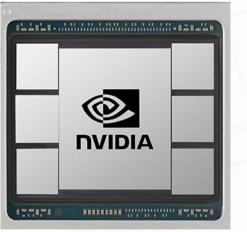


N Company







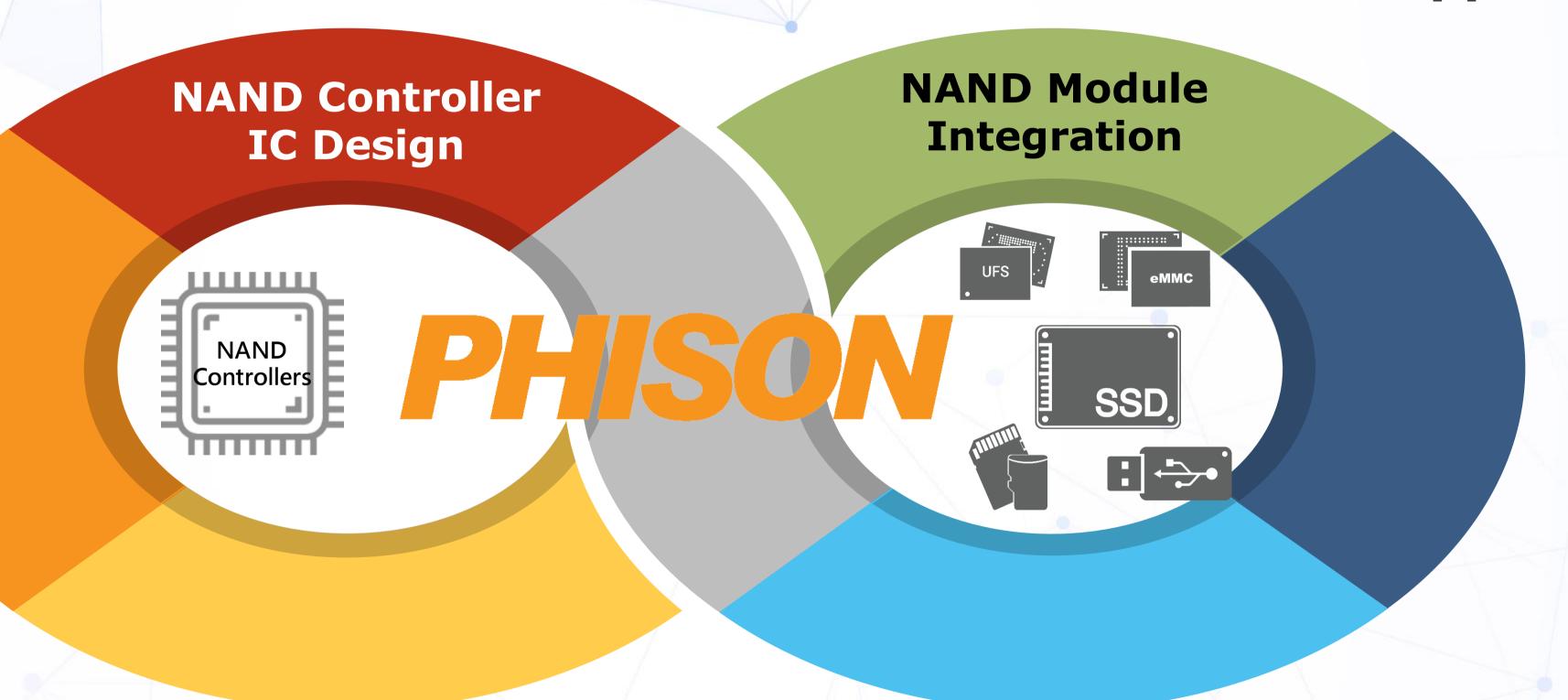






Phison

More Than a NAND Controllers and NAND ODM modules supplier



PHISON

THE FOUNDATION THAT ACCELERATES INNOVATION™

A holistic vision for high-performance storage in the modern data ecosystem

Cutting-Edge Technology Company Expands NAND Storage Eco-System Partnerships and Next-Gen Industry Contributions FOUNDATION Eco-System Partnerships and Next-Gen Industry Contributions

Industry-Leading

Storage IP

Portfolio

Commitment

to R&D

Global Industry

Footprint and

One-Of-A-Kind

Business

Model

PHISON

Providing Value-Added Modules with IC Design Capabilities

Phison, the Foundation that Accelerates Innovation

Foundation

Vertical integrated IC design & system know-how

Innovation

Bring expertise to unique innovative designs while maximizing profit



Phison Proposed to Prepay NAND Vendors to Secure a Stable NAND Supply



Phison Proposed to Prepay NAND Vendors to Secure a Stable NAND Supply

Supply Constraints for Some Products

Due to limited NAND flash manufacturing capacity from NAND suppliers, some of Phison's products experienced supply constraints in the fourth quarter. Phison's board of directors passed a resolution on November 7 to consider prepaying NAND suppliers to strengthen the partnership and ensure a stable supply.

Seizing Future Quarter Growth Opportunities

To seize growth opportunities in the coming quarters, research institutions predict a potential NAND supply shortage in 2024, with overall NAND revenue expected to reverse and increase in that year. Phison continues to expand its collaboration with high-end application and value-added design service customers, anticipating an expansion of its business scale as the market turns around.





Phison Proposed to Issue the Second Domestic Unsecured Convertible Bonds

- Proposal for Issue of Domestic Unsecured Corporate Bonds: The Board approved on 11/7 that the company
 to offer and issue the second domestic unsecured convertible corporate bonds, in order to enrich working
 capital to improve capital scheduling capabilities.
- The estimated **total number of bonds issued this time will be limited to 60,000**, and the denomination of each bond will be NT\$100 thousand, and the total denomination of the bonds will be expected to be limited to **NT\$6,000,000 thousand (6 billion NTD)**. The issuance is based on 100-101% of the par value, and the estimated total issuance limit is NT\$6,060,000 thousand. The tenor is five years, and the coupon rate is 0%. The book-building method is proposed to be used for public under writing.
- After the actual issuance conditions of this case are submitted to the competent authority to declare and take effect, the issuance conditions and the actual issuance operations will be set in accordance with relevant laws and regulations and the financial environment and market conditions.

Reasons for the Issuance of the Second Domestic Unsecured Convertible Bonds (1/2)

Expanding Business Scale Needed

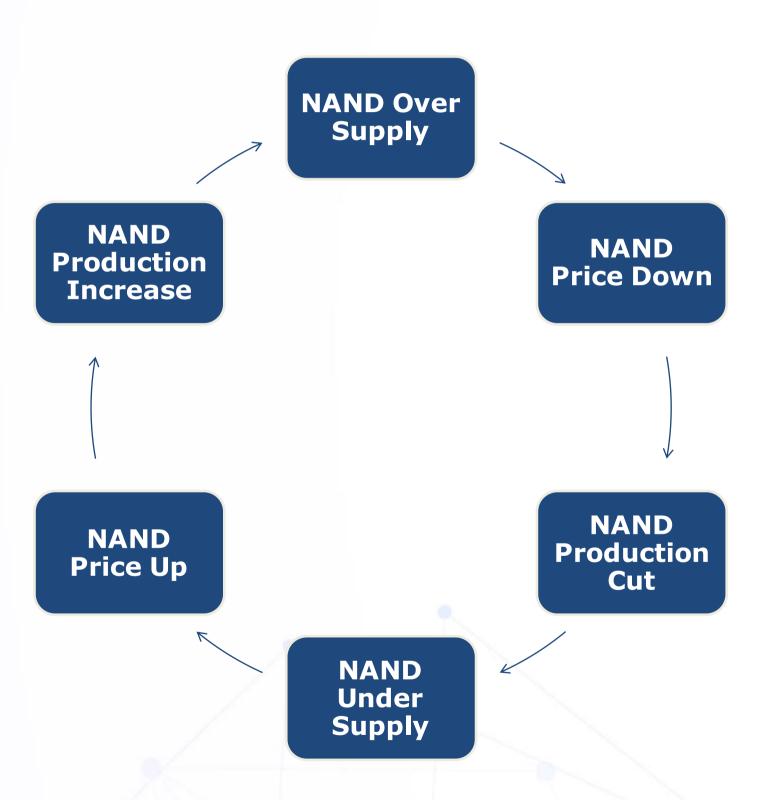
Due to market expectations of a gradual turnaround and growth in overall NAND demand in 2024, Phison needs to expand its business scale to meet the demands of global customers and partners and to seize opportunities.

Investing in Advanced Process Controllers

As the NAND application market continues to demand high-speed transmission and storage performance, and the variety of application systems with NAND storage devices keeps expanding, Phison must continue to recruit R&D engineers and increase investment in advanced process controller development to maintain the company's technological leadership.

PHISON

Reasons for the Issuance of the Second Domestic Unsecured Convertible Bonds (2/2)



NAND Over Supply

NAND vendors need Phison to purchase more NAND to absorb excess inventory. Procuring NAND helps Phison simultaneously reduce NAND inventory costs and strengthen its collaboration with NAND vendors (requires sufficient funding).

NAND Under Supply

Phison, with a strong history of cooperation with NAND vendors, continues to secure a relatively stable supply of NAND (requires sufficient funding).

Regardless of NAND Over/Under Supply

Phison needs to have **sufficient funding** in both NAND over and under supply scenarios. This enables Phison to use flexible procurement strategies to capture growth opportunities and maximize revenue and profits during supply and demand fluctuations.



Business Highlights

PHISON Client SSD Market Client SSD. Through transformation, Phison will continue to expand its market share in the client SSD market. 24%₊ Phison Client SSD Controller Shipments Market Share @2022

PHISON

Automotive Storage

15+

Brands of Top 20 Car Makers Adopted Phison Auto Storage Solutions

40%+

Phison Auto NAND Controller Shipments Market Share @2022

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



Mobile Storage

12+ Host Chipset Makers Verified

MEDIATEK

Qualcom

啦 UNISOC

intel.

NP

NOVATEK

Rackchip

ALLWIMER

Mstar

Sigm Star

芯驰 SemiDrive

24% +

Phison eMMC Controller Shipments Market Share @2022





PHISON

Industrial Storage

3Q23 Design-in Projects



Battery Storage Phison S17T SATA SSD Inside



Smart Mail-Box Phison S17T SATA SSD Inside



ATM Machine Phison E13T PCIe 3.0 SSD Inside



CCTV Broadcasting system (NVR) **Phison S12DI SATA SSD Inside**



Space Storage



Signal Conditioning IC Market

Phison PCIe 5.0 Redriver Design-in Projects

Verified

Phison PCIe 5.0 Retimer PS7201 PCI-SIG Verification

50%+

Phison PCIe 5.0 Redriver Shipments Market Share @2022 1H24

Phison PCIe 5.0 Retimer Start Shipping

PCI Express 5.	.0					SIG
		Sy	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	PCIe 5.0 at 32GT/s	x16	PCIe 5.0 16 lanes retimer	Sep 25, 2023

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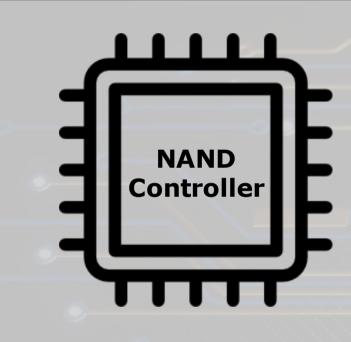
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3Q23 Design Service Highlights.



- Customized
- · UFS 2.2/3.1/4.0

· PCIe 4.0/5.0

• eMMC 5.1



Customized

- **UFS** for mobile applications
- eMMC for entry phones



Customized

• PCIe 4.0

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- FW & ASIC modification
- Analog
- Testing conditions





Phison's VALUE Value-added Business Model

ASP improve **Gross Profit improve**

> **Differentiation** Value-Added

System Module Design

IC Design Capability as the Foundation



Continue to Strengthen Phison Leading Technology Position

Category	2017	2018	2019	2020	2021	2022	3Qs/23
R&D Headcount	942	1,112	1,450	1,531	2,228	2,891	3,023
R&D Exp. / Revenue (%)	9%	9%	11%	14%	13%	14%	21%
R&D Exp. / Operating Exp.	78%	79%	79%	81%	81%	77%	82%





3800+
Global Employees

75% Proportion of Engineers

Note: Global patents including Granted and Pending