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Q4'22 REVENUE & RESULTS



Q4'22 Financial Results Summary

Amount in Million NT\$, except for EPS & BVPS	Q4'22 (Unaudited)		Q3'22		QoQ Q4		'21	YoY
Net Sales	7,954	100%	11,022	100%	-27.8%	21,399	100%	-62.8%
Gross Profit (Loss) Gross Margin(%)	1,037	13.0%	3,597	32.6%	-71.2%	10,563	49.4%	-90.2%
Operating Income (Loss) Operating Margin(%)	-1,544	-19.4%	920	8.3%	-267.8%	8,023	37.5%	-119.2%
EBITDA* EBITDA Margin (%)	2,218	27.9%	4,717	42.8%	-53.0%	11,850	<i>55.4%</i>	-81.3%
Non-operating Income (Expense)	121**	1.5%	2,243	20.3%		101	0.5%	
Income Tax Benefit (Expense)	272	3.4%	-522	-4.7%		-1,670	-7.8%	
Net Income (Loss) Net Margin (%)	-1,151	-14.5%	2,641	24.0%	-143.6%	6,454	30.2%	-117.8%
Earnings Per Share (NT\$)	-0.37***		0.85			2.08		
Book Value Per Share (NT\$)	58.41****		59.29			55.85		

Remark: * EBITDA = Operating income + Depreciation & Amortization Expenses

^{**} FX loss unfavorable NT\$2,336M QoQ

^{***} EPS is based on weighted average outstanding shares of 3,098M

^{****} BVPS is calculated based on 3,098M outstanding shares



Quarterly Revenue Results

	QoQ Q4'22 vs. Q3'22	YoY Q4'22 vs. Q4'21
Revenue	-27.8%	-62.8%
Shipment	Decreased low-single digits%	Decreased low-thirties%
ASP	Decreased mid-twenties%	Decreased low-fifties%
Exchange Rate	Increased low-single digits%	Increased low-teens%

- Q4'22 Revenue decreased by 27.8% QoQ
- Q4'22 Bit shipment decreased by low-single digits% QoQ
- Q4'22 ASP decreased by mid-twenties% QoQ

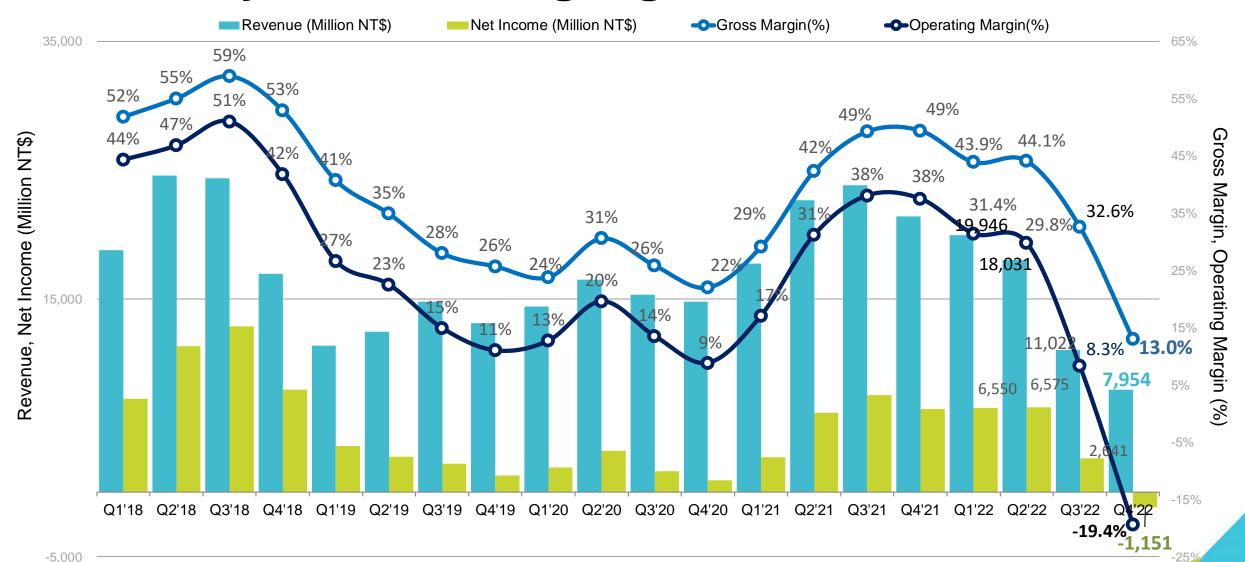


Q4'22 vs. Q3'22 Results Comparison

Amount in Million NT\$	Q4 ⁴ (Unau		Q3'22		QoQ (PPT* Delta)	Remarks				
Net Sales	7,954		11,022		-27.8%		ASP decreased mid-twenties% Bit shipment decreased low-single digits% FX positive low-single digits% increase			
Gross Profit (Loss) Gross Margin(%)	1,037	13.0%	3,597	32.6%	-19.6%		Q4'22 Gross profit decreased NT\$ 2,560M, mainly due to ASP and shipment decrease			
Operating Expense	2,581	2,581 32.4 %		24.3%	8.1%	•	Operating expenses decreased NT\$ 96M			
Operating Income (Loss) Operating Margin(%)	-1,544	-19.4%	920	8.3%	-27.7%		Q4'22 OP income decreased NT\$ 2,464M			
Net Income (Loss) Net Margin (%)	-1,151	-14.5%	2,641	24.0%	-38.5%		 Net Income decreased NT\$ 3,792M OP Income decreased NT\$ 2,464M FX loss unfavorable NT\$2,336M Interest income favorable NT\$281M Income tax favorable NT\$794M 			

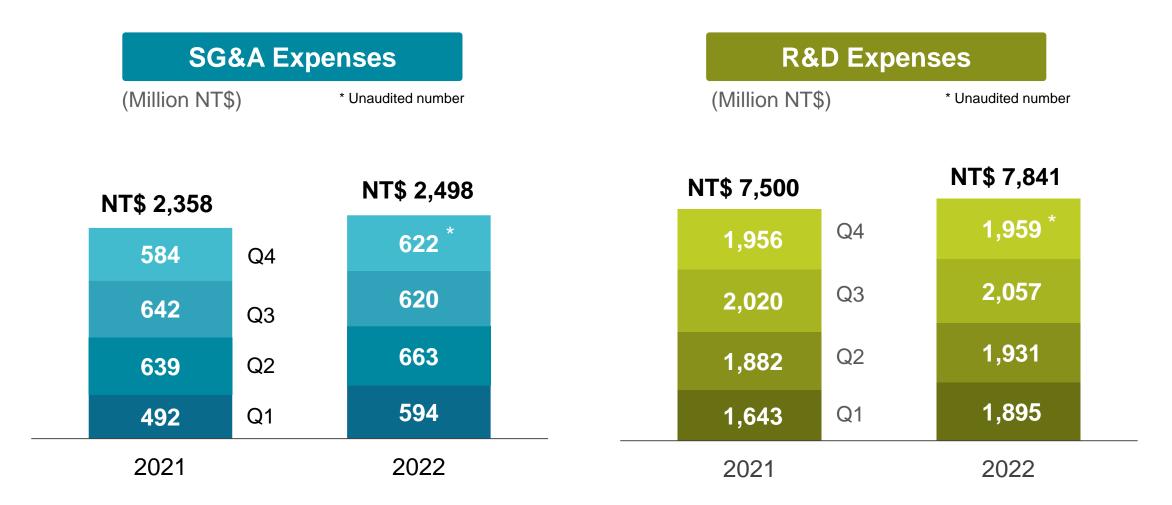


Quarterly Financial Highlights





Operating Expenses





Cash Flows

Unit: Million NT\$	Q4'22 (Unaudited)	Q3'22
Beginning Balance	83,012	94,973
Cash from Operating Activities	690	2,739
Capital Expenditures	-6,651	-7,517
Others	*-2,746	**-7,183
Ending Balance	74,304	83,012
Free Cash Flow ⁽¹⁾	-5,961	-4,778

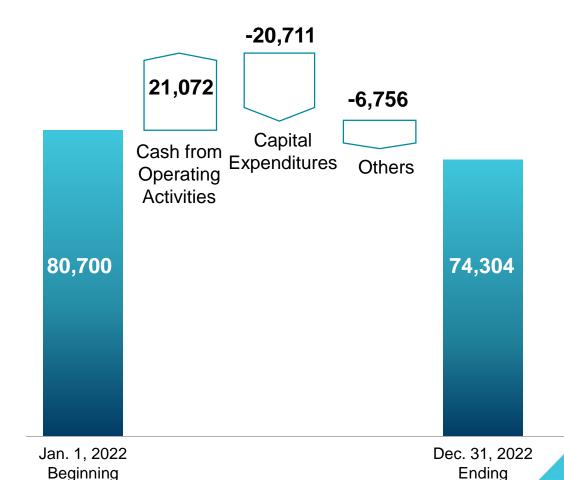
(1) Free Cash Flow = Cash from operating activities – Capital expenditures

- * NT\$ 2.78 billion of exchange rate changes on cash and cash equivalents
- ** 1. NT\$ 11.47 billion of dividend payout
 - 2. +NT\$ 3.78 billion of exchange rate changes on cash and cash equivalents

Year 2022 Cash Flow

Unit: Million NT\$

Balance



Balance



2022 REVENUE & RESULTS



2022 Consolidated Income Statement

Amount: Million NT\$	2022 (Unaudite	ed)	202	21	YoY
Net Sales	56,952	100.0%	85,604	100.0%	-33.5%
Cost of Goods Sold	35,610	62.5%	48,560	56.7%	
Gross Margin	21,342	37.5%	37,044	43.3%	-42.4%
SG&A Expenses	2,498	4.4%	2,358	2.8%	
R&D Expenses	7,841	13.8%	7,500	8.8%	
Operating Income	11,003	19.3%	27,186	31.8%	-59.5%
Non-operating Income (Exp.)	5,870*	10.3%	581	0.7%	
Income before Tax	16,873	29.6%	27,767	32.4%	-39.2%
Income Tax Benefit (Expense)	-2,259	-4.0%	-4,918	-5.7%	
Net Income	14,614	25.7%	22,849	26.7%	-36.04%
EPS(NT\$)	4.72		7.40		
Book Value Per Share(NT\$)	58.41		55.85		

^{*} FX gain NT\$ 3,187M, interest income NT\$ 1,393M, equity income NT\$ 574M and other income



2022 vs. 2021 Results Comparison

Amount in Million NT\$	20 : (Unau		2021		YoY (PPT* Delta)	Remarks			
Net Sales	56,952		85,604		-33.5%	 Bit shipment decreased twenties YoY ASP decreased low-teens% YoY FX positive mid-single digits% YoY 			
Gross Income (Loss) Gross Margin(%)	21,342 37.5 %		37,044	43.3%	-5.8%	 Gross Income decreased by NT\$ 15,702M mainly due to shipment and ASP decrease 			
Operating Expense	10,340 18.2 %		9,858	11.5%	6.7%	 SG&A expense increased NT\$ 140M, R&D expense increased NT\$ 342M 			
Operating Income (Loss) Operating Margin(%)	11,003	19.3%	27,186	31.8%	-12.5%	■ Operating Income decreased NT\$ 16,184M			
Net Income (Loss) Net Margin (%)	14,614	25.7%	22,849	26.7%	-1.0%	 Net Income decreased by NT\$ 8,235M mainly due to: Operating Income decreased NT\$ 16,184M FX gain favorable NT\$ 3,510M (2022: NT\$ +3,187M; 2021: NT\$ -323M) Interest income increase NT\$ 1,119M Income tax favorable NT\$ 2,659M 			

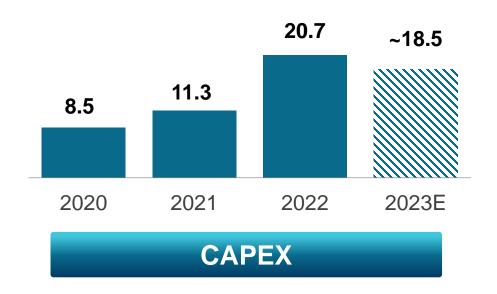


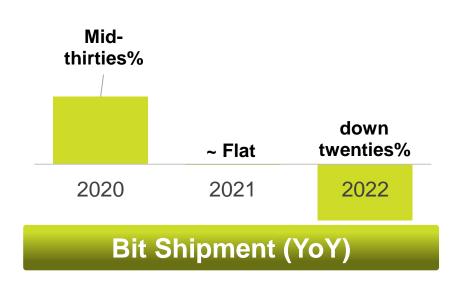




CAPEX & Bit Shipment

NT\$ Billion





- Capital Expenditure(CAPEX)
- 2022 CAPEX reduced 27% to NT\$ 20.7B from NT\$ 28.4B
- 2023 CAPEX plan estimated ~ NT\$ 18.5B subject to BoD approval

Bit Shipment

- 2022 YoY bit shipment down twenties% due to weak market demand
- 1H'23 weak demand may continue
- Production output reduction targeting up to 20% dynamically for 2023

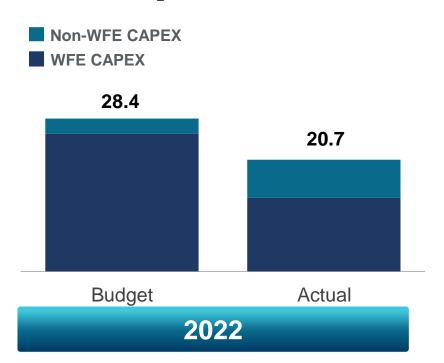


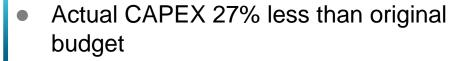
NT\$ Billion

Non-WFE CAPEX

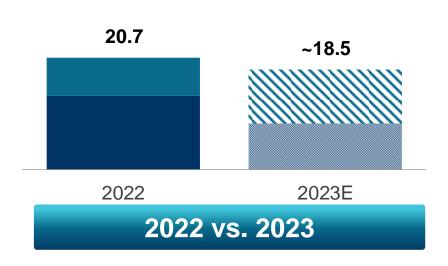
WFE CAPEX

CAPEX Update and Forecast





Cut 2022 WFE CAPEX by almost half



- 2023 CAPEX plan approx. NT\$ 18.5B
- WFE CAPEX less than 50% of total
- CAPEX plan subject to BoD approval







Market Outlook(2023)

Outlook

- Q1'23, DRAM market to remain soft, due to corporates spending and consumer purchasing power decline. Globally, Economics downturn triggered by high inflation and interest rates. Regionally, Russia-Ukraine conflict & China COVID measures impact on supply chain & its domestic demand.
- Q2'23 some global and regional impact may remain uncertain or marginally improved;
 2H'23, potentially, DRAM market may gradually recover from downturn

Supply

 Q1'23 DRAM suppliers' inventory continue to increase, some vendors took actions on CAPEX reduction, capacity adjustment and slowing down process migration

Demand

- Server Market: Enterprise cloud demand healthy, however consumer cloud vendors to reduce investment due to sluggish economy. 2H'23, as the components supply imbalance issue solved, the new CPU platform & DDR5 may stimulate server DRAM demand
- Mobile Market: U.S. & Korea mobile phone makers shipment relatively healthy. China brand smartphone relatively sluggish. Q2'23 inflation and inventory impact gradually eased; 2H'23 potentially, smartphone shipments may recover
- PC Market: Annual PC shipments continue to decline; average DRAM content remain growth
- Consumer Market: Q1'23 TVs and consumer electronics sales conservative, may improve in 2H23; Networking, industrial and automotive demand relatively healthy



BUSINESS REVIEW & OUTLOOK



Nanya Business Review & Outlook

Finance

Q4'22 EPS NT\$ -0.37; Y2022 EPS NT\$ 4.72

Operation

- Flexible approach in adjusting product mix, production output and CAPEX to better respond weaker market demand
- 1st 10nm-class (1A) product small volume production; 2nd 10nm-class (1B) piloting and target small volume production in 2023
- Nanya consecutively selected into DJSI World Index and Emerging Markets Index
- Nanya received CDP Water Security "A" list, Climate Change leadership level

Market Outlook

 Q1'23 global economy slowdown, DRAM market remain soft, Q2'23 need to monitor China recovery, global supply chain restructure & inflation trend





Q4'22 Consolidated Income Statement

Amount: Million NT\$	Q4'22 (Unaudited)		Q3'22		QoQ	Q4'21		YoY
Net Sales	7,954	100.0%	11,022	100.0%	-27.8%	21,399	100.0%	-62.8%
Cost of Goods Sold	6,917	87.0%	7,425	67.4%		10,836	50.6%	
Gross Margin	1,037	13.0%	3,597	32.6%	-71.2%	10,563	49.4%	-90.2%
SG&A Expenses	622	7.8%	620	5.6%		584	2.7%	
R&D Expenses	1,959	24.6%	2,057	18.7%		1,956	9.1%	
Operating Income	-1,544	-19.4%	920	8.3%	-267.8%	8,023	37.5%	-119.2%
Non-operating Income (Exp.)	121	1.5%	2,243	20.3%		101	0.5%	
Income before Tax	-1,423	-17.9%	3,163	28.7%	-145.0%	8,125	38.0%	-117.5%
Income Tax Benefit (Expense)	272	3.4%	-522	-4.7%		-1,670	-7.8%	
Net Income	-1,151	-14.5%	2,641	24.0%	-143.6%	6,454	30.2%	-117.8%
Earnings Per Share (NT\$)	-0.37		0.85			2.08		
Book Value Per Share(NT\$)	58.41		59.29			55.85		