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Topics in This Report:

- Revenue Analysis
- Profit & Expense Analysis
- Financial Condition Review
- Cash Flow
- CapEx
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4Q24

Quarterly Management Report January 16, 2025

Operating Results Review:

Summary:							
(Amounts are on consolidated basis and are in NT\$ billions unless otherwise noted)	<u>4Q24</u>	3Q24	<u>4Q23</u>	<u>QoQ</u>	<u>YoY</u>	2024	2023
EPS (NT\$ per common share) (US\$ per ADR unit)	14.45 2.24	12.54 1.94	9.21 1.44	15.2%	57.0%	45.25 7.04	32.34 5.18
Net Revenue (US\$ billions)	26.88	23.50	19.62	14.4%	37.0%	90.08	69.30
Net Revenue	868.46	759.69	625.53	14.3%	38.8%	2,894.31	2,161.74
Gross Profit Gross Margin	512.38 <i>5</i> 9.0%	439.35 <i>57.8%</i>	331.77 53.0%	16.6%	54.4%	1,624.35 56.1%	1,175.11 <i>54.4%</i>
Operating Expenses Other Operating Income and Expenses	(86.34) (0.33)	(79.08) 0.50	(71.62) 0.06	9.2%	20.6%	(301.07) (1.23)	(253.83) 0.19
Operating Income Operating Margin	425.71 49.0%	360.77 47.5%	260.21 41.6%	18.0%	63.6%	1,322.05 <i>45.7%</i>	921.47 <i>4</i> 2.6%
Non-Operating Items	23.09	23.42	18.07			83.79	57.70
Net Income Attributable to Shareholders of the Parent Company	374.68	325.26	238.71	15.2%	57.0%	1,173.27	838.50
Net Profit Margin	43.1%	42.8%	38.2%			40.5%	38.8%
Wafer Shipment (kpcs 12 inch-equiv.)	3,418	3,338	2,957	2.4%	15.6%	12,910	12,002
Average Exchange RateUSD/NTD	32.30	32.32	31.88	-0.1%	1.3%	32.13	31.19

Note: Diluted weighted average outstanding shares were 25,929mn units in 4Q24

Financial Highlights:

Fourth Quarter 2024

- Net revenue was NT\$868.46 billion, representing a 14.3% increase from NT\$759.69 billion in 3Q24 and a 38.8% increase from NT\$625.53 billion in 4Q23.
- Gross margin was 59.0%, 1.2 percentage points higher than 3Q24 and 6.0 percentage points higher than 4Q23.
- Operating margin was 49.0%, up 1.5 percentage points from 3Q24 and up 7.4 percentage points from 4Q23.
- Non-operating items were a gain of NT\$23.09 billion, as compared to a gain of NT\$23.42 billion in 3Q24 and a gain of NT\$18.07 billion in 4Q23.
- Net income attributable to shareholders of the parent company was NT\$374.68 billion, up 15.2% from 3Q24 and up 57.0% from 4Q23. Net profit margin was 43.1% and diluted EPS was NT\$14.45.

Full Year 2024

- Net revenue was NT\$2,894.31 billion, representing a 33.9% increase from 2023. In US dollar terms, net revenue increased 30.0% to US\$90.08 billion in 2024.
- Gross margin was 56.1%, up 1.7 percentage points from 54.4% in 2023.
 Operating margin was 45.7%, up 3.1 percentage points from 42.6% in 2023.
- Diluted EPS was NT\$45.25, up 39.9% from NT\$32.34 in 2023. Net profit margin was 40.5%, up 1.7 percentage points from 38.8% in 2023.

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I. Revenue Analysis

Wafer Revenue by Technology	4Q24	3Q24	4Q23
3nm	26%	20%	15%
5nm	34%	32%	35%
7nm	14%	17%	17%
16nm	7%	8%	8%
20nm	0%	0%	0%
28nm	6%	7%	7%
40/45nm	3%	4%	4%
65nm	4%	4%	5%
90nm	1%	1%	1%
0.11/0.13um	2%	2%	3%
0.15/0.18um	3%	4%	4%
0.25um and above	0%	1%	1%

Net Revenue by Platform	4Q24	3Q24	4Q23
High Performance Computing	53%	51%	43%
Smartphone	35%	34%	43%
Internet of Things	5%	7%	5%
Automotive	4%	5%	5%
Digital Consumer Electronics	1%	1%	2%
Others	2%	2%	2%

Net Revenue by Geography	4Q24	3Q24	4Q23
North America	75%	71%	72%
China	9%	11%	11%
Asia Pacific	9%	10%	8%
Japan	4%	5%	5%
EMEA	3%	3%	4%

Wafer Revenue by Technology	2024	2023
3nm	18%	6%
5nm	34%	33%
7nm	17%	19%
16nm	8%	10%
20nm	0%	1%
28nm	7%	10%
40/45nm	4%	6%
65nm	4%	6%
90nm	1%	1%
0.11/0.13um	2%	2%
0.15/0.18um	4%	5%
0.25um and above	1%	1%

Net Revenue by Platform	2024	2023
High Performance Computing	51%	43%
Smartphone	35%	38%
Internet of Things	6%	8%
Automotive	5%	6%
Digital Consumer Electronics	1%	2%
Others	2%	3%

Net Revenue by Geography	2024	2023
North America	70%	68%
China	11%	12%
Asia Pacific	10%	8%
Japan	5%	6%
EMEA	4%	6%

Revenue Analysis:

In the fourth quarter, revenue increased 14.3% sequentially, supported by strong demand for our industry-leading 3nm and 5nm technologies.

By technology, 3nm process technology contributed 26% of total wafer revenue in 4Q24, while 5nm and 7nm accounted for 34% and 14% respectively. Advanced technologies (7nm and below) accounted for 74% of total wafer revenue.

By platform, HPC and Smartphone represented 53% and 35% of net revenue respectively, while IoT, Automotive, DCE, and Others each represented 5%, 4%, 1%, and 2%.

Sequentially, revenue from HPC, Smartphone, Automotive, and others increased 19%, 17%, 6%, and 2% respectively from 3Q24, while IoT and DCE decreased 15%, and 6% respectively.

From a geographic perspective, revenue from customers based in North America accounted for 75% of total net revenue in 4Q24, while revenue from China, Asia Pacific, Japan, and EMEA (Europe, Middle East, and Africa) accounted for 9%, 9%, 4%, and 3% of total net revenue respectively.

On a full year basis, 3nm contribution reached 18% of total wafer revenue in 2024 while 5nm and 7nm process technology contributed 34% and 17% respectively. Advanced technologies accounted for 69% of total wafer revenue, up from 58% in 2023.

By platform, revenue from HPC, Smartphone, IoT, Automotive and DCE increased 58%, 23%, 2%, 4%, and 2% respectively from 2023, while Others decreased 14%.

In 2024, revenue from customers based in North America accounted for 70% of total net revenue, while revenue from China, Asia Pacific, Japan, and EMEA accounted for 11%, 10%, 5%, and 4% of total net revenue respectively.

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II. Profit & Expense Analysis

II - 1. Gross Profit Ana	alysis				
(In NT\$ billions) Net Revenue	<u>4Q24</u> 868.46	3Q24 759.69	4Q23 625.53	<u>2024</u> 2,894.31	<u>2023</u> 2,161.74
Cost of Revenue	(356.08)	(320.34)	(293.76)	(1,269.96)	(986.63)
Gross Profit	512.38	439.35	331.77	1,624.35	1,175.11
Gross Margin	59.0%	57.8%	53.0%	56.1%	54.4%

II - 2. Operating Income A	Analysis				
(In NT\$ billions)	<u>4Q24</u>	3Q24	4Q23	2024	2023
Total Operating Expenses	(86.34)	(79.08)	(71.62)	(301.07)	(253.83)
Research & Development	(57.23)	(52.78)	(50.41)	(204.18)	(182.37)
SG&A	(29.11)	(26.30)	(21.21)	(96.89)	(71.46)
Other Operating Income and Expenses	(0.33)	0.50	0.06	(1.23)	0.19
Operating Income	425.71	360.77	260.21	1,322.05	921.47
Operating Margin	49.0%	47.5%	41.6%	45.7%	42.6%
Total Operating Expenses as % of Net Revenue	10.0%	10.4%	11.4%	10.4%	11.8%

II - 3. Non-Operating Items					
(In NT\$ billions)	<u>4Q24</u>	3Q24	4Q23	<u>2024</u>	2023
L-T Investments	1.29	1.56	1.31	4.88	4.65
Net Interest Income (Expenses)	21.75	19.97	14.49	76.72	48.29
Other Gains and Losses	0.05	1.89	2.27	2.19	4.76
Total Non-Operating Items	23.09	23.42	18.07	83.79	57.70

II - 4. Net Profit and EPS (In NT\$ billions)	<u>4Q24</u>	<u>3Q24</u>	<u>4Q23</u>	2024	<u>2023</u>
Income before Tax	448.80	384.19	278.28	1,405.84	979.17
Income Tax Expenses	(74.33)	(59.11)	(39.97)	(233.41)	(141.40)
Effective Tax Rate	16.6%	15.4%	14.4%	16.7%	14.5%
Net Income Attributable to the Parent Company	374.68	325.26	238.71	1,173.27	838.50
Net Profit Margin	43.1%	42.8%	38.2%	40.5%	38.8%
EPS (NT\$ per common share)	14.45	12.54	9.21	45.25	32.34

Gross Profit Analysis:

Gross margin was 59.0% in 4Q24, 1.2 percentage points higher than 3Q24, primarily due to a higher capacity utilization rate and productivity gains, partially offset by dilution from the continued ramp-up of our 3-nanometer technology.

On a full year basis, gross margin was 56.1% in 2024, up 1.7 percentage points from 2023, mainly reflecting a higher capacity utilization rate, partially offset by N3 dilution and higher electricity costs.

Operating Income Analysis:

Total operating expenses increased NT\$7.26 billion to NT\$86.34 billion in 4Q24. Given a higher gross margin, operating margin improved 1.5 percentage points sequentially to 49.0% in 4Q24.

For full year 2024, total operating expenses represented 10.4% of net revenue as compared to 11.8% in 2023, mainly due to operating leverage.

Non-Operating Items:

Total non-operating items were a gain of NT\$23.09 billion in 4Q24, compared to a gain of NT\$23.42 billion in 3Q24.

On a full year basis, total non-operating items increased by NT\$26.09 billion to a gain of NT\$83.79 billion in 2024, mainly reflecting a higher interest income.

Net Profit and EPS:

Net income attributable to shareholders of the parent company was NT\$374.68 billion in 4Q24, up 15.2% from 3Q24 and up 57.0% from 4Q23.

On a full year basis, both net income and EPS increased by 39.9% from 2023.

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III. Financial Condition Review

(Balance Sheet Items)			
(In NT\$ billions)	4Q24	<u>3Q24</u>	<u>4Q23</u>
Cash & Marketable Securities	2,422.02	2,167.60	1,687.65
Accounts Receivable	272.09	249.97	201.94
Inventories	287.86	292.88	250.99
Other Current Assets	106.38	63.46	53.45
Total Current Assets	3,088.35	2,773.91	2,194.03
Accounts Payable	266.86	195.95	228.78
Current Portion of Bonds Payable and Bank Loans	59.86	58.80	9.29
Dividends Payable	220.42	207.46	168.56
Accrued Liabilities and Others	717.39	618.19	506.95
Total Current Liabilities	1,264.53	1,080.40	913.58
Current Ratio (x)	2.4	2.6	2.4
Net Working Capital	1,823.82	1,693.51	1,280.45

Liquidity Analysis:

On a sequential basis, total current assets increased by NT\$314.44 billion, mainly due to the increase of NT\$254.42 billion in cash and marketable securities and NT\$22.12 billion in accounts receivable.

Total current liabilities increased by NT\$184.13 billion, mainly due to the increase of NT\$70.91 billion in accounts payable and NT\$99.20 billion in accrued liabilities and others.

Net working capital was NT\$1,823.82 billion and current ratio was 2.4x in 4Q24.

III - 2. Receivable/Inventory Days			
(In Number of Days)	<u>4Q24</u>	<u>3Q24</u>	<u>4Q23</u>
Days of Receivable	27	28	31
Days of Inventory	80	87	85

Receivable and Inventory Days:

Days of receivable decreased 1 day to 27 days in 4Q24.

Days of inventory decreased 7 days to 80 days in 4Q24, primarily due to higher N3 and N5 wafer shipments.

III - 3. Debt Service			
(In NT\$ billions)	4Q24	<u>3Q24</u>	4Q23
Cash & Marketable Securities	2,422.02	2,167.60	1,687.65
Interest-Bearing Debts	(1,018.29)	(994.97)	(954.87)
Net Cash Reserves	1,403.73	1,172.63	732.78

Debt Service:

Net cash reserves increased NT\$231.10 billion to NT\$1,403.73 billion in 4Q24, mainly due to the increase of NT\$254.42 billion in cash and marketable securities.

IV. Cash Flow

IV - 1. Quarterly Cash Flow Analysis			
(In NT\$ billions)	<u>4Q24</u>	<u>3Q24</u>	<u>4Q23</u>
Income before Tax	448.80	384.19	278.28
Depreciation & Amortization	170.38	168.23	150.65
Other Operating Sources/(Uses)	1.03	(160.43)	(34.10)
Net Operating Sources/(Uses)	620.21	391.99	394.83
Capital Expenditures	(361.95)	(207.08)	(170.16)
Marketable Financial Instruments	(20.47)	(19.78)	(3.15)
Other Investing Sources/(Uses)	70.49	31.35	40.99
Net Investing Sources/(Uses)	(311.93)	(195.51)	(132.32)
Cash Dividends	(103.73)	(90.76)	(77.80)
Bonds Payable	(1.75)	(5.25)	9.80
Other Financing Sources/(Uses)	4.75	12.37	(7.37)
Net Financing Sources/(Uses)	(100.73)	(83.64)	(75.37)
Exchange Rate Changes	33.30	(25.19)	(33.52)
Cash Position Net Changes	240.85	87.65	153.62
Ending Cash Balance	2,127.63	1,886.78	1,465.43

Summary of Cash Flow:

During the fourth quarter, cash generated from operating activities totaled NT\$620.21 billion, including (1) NT\$448.80 billion from income before tax, (2) NT\$170.38 billion from depreciation & amortization expenses, and (3) NT\$1.03 billion for other operating sources.

Net cash used in investing activities was NT\$311.93 billion in 4Q24, primarily attributable to capital expenditures of NT\$361.95 billion.

Net cash used in financing activities was NT\$100.73 billion, mainly reflecting the payment of 1Q24 cash dividends of NT\$103.73 billion.

As a result, cash position increased NT\$240.85 billion to NT\$2,127.63 billion at the end of 4Q24.

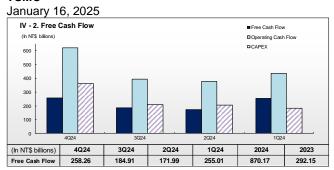
IV - 1.2. Annual Cash Flow Analysis			
(In NT\$ billions)	<u>2024</u>	<u>2023</u>	Diff.
Income before Tax	1,405.84	979.17	426.67
Depreciation & Amortization	662.80	532.19	130.61
Other Operating Sources/(Uses)	(242.46)	(269.39)	26.93
Net Operating Sources/(Uses)	1,826.18	1,241.97	584.21
Capital Expenditures	(956.01)	(949.82)	(6.19)
Marketable Financial Instruments	(54.59)	(55.97)	1.38
Other Investing Sources/(Uses)	145.75	99.67	46.08
Net Investing Sources/(Uses)	(864.85)	(906.12)	41.27
Cash Dividends	(363.05)	(291.72)	(71.33)
Bonds Payable	27.30	67.60	(40.30)
Other Financing Sources/(Uses)	(10.55)	19.23	(29.78)
Net Financing Sources/(Uses)	(346.30)	(204.89)	(141.41)
Exchange Rate Changes	47.17	(8.34)	55.51
Cash Position Net Changes	662.20	122.62	539.58
Ending Cash Balance	2,127.63	1,465.43	662.20

On a full year basis, cash generated from operating activities totaled NT\$1,826.18 billion, including (1) NT\$1,405.84 billion from income before tax, (2) NT\$662.80 billion from depreciation & amortization, and (3) NT\$242.46 billion for other operating uses, which mainly included income tax payment and net changes in working capital and others.

Net cash used in investing activities was NT\$864.85 billion, primarily including capital expenditures of NT\$956.01 billion.

Net cash used in financing activities totaled NT\$346.30 billion, mainly reflecting the payment of cash dividends of NT\$363.05 billion, partially offset by the net increase in bonds payable of NT\$27.30 billion.

At the end of 2024, cash position was NT\$2,127.63 billion.



Operating and Free Cash Flow:

Free cash flow increased NT\$73.35 billion to an inflow of NT\$258.26 billion in 4Q24, mainly as the increase in operating cash flow outpaced the increase in capital expenditures during the quarter.

Total free cash flow generated in 2024 was NT\$870.17 billion, an increase from NT\$292.15 billion in 2023, mainly due to the increase in operating cash flow in 2024.

V. CapEx

V. Capital Expenditures					
(in US\$ billions)	<u>4Q24</u>	3Q24	<u>2Q24</u>	<u>1Q24</u>	<u>2024</u>
Capital Expenditures	11.23	6.40	6.36	5.77	29.76

Capital Expenditures:

Capital expenditures for TSMC on a consolidated basis totaled US\$11.23 billion in 4Q24 and US\$29.76 billion for the year.

VI. Recap of Recent Important Events & Announcements

