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Topics in This Report:

- Revenue Analysis
- Profit & Expense Analysis
- Financial Condition Review
- Cash Flow
- CapEx
- Recap of Recent Important Events & Announcements

4Q16

Quarterly Management Report January 12, 2017

Operating Results Review:

Summary:					
(Amounts are on consolidated basis and are in NT\$ billions unless otherwise noted)	<u>4Q16</u>	<u>3Q16</u>	4Q15	<u>2016</u>	<u>2015</u>
EPS (NT\$ per common share) (US\$ per ADR unit)	3.86 0.61	3.73 0.59	2.81 0.43	12.89 2.00	11.82 1.86
Net Revenue Gross Profit Gross Margin	262.23 137.11 <i>5</i> 2.3%	260.41 132.05 <i>50.7%</i>	203.52 98.93 48.6%	947.94 474.83 <i>50.1%</i>	843.50 410.40 <i>4</i> 8.7%
Operating Expenses Other Operating Income and Expenses Operating Income Operating Margin	(27.18) (0.02) 109.91 41.9%	(25.84) 0.05 106.26 40.8%	(21.22) 0.25 77.96 38.3%	(96.90) 0.03 377.96 39.9%	(88.47) (1.88) 320.05 37.9%
Non-Operating Items	2.14	1.99	2.68	8.00	30.38
Net Income Attributable to Shareholders of the Parent Company	100.20	96.76	72.84	334.25	306.57
Net Profit Margin	38.2%	37.2%	35.8%	35.3%	36.3%
Wafer Shipment (kpcs 12 inch-equiv.)	2,614	2,638	2,020	9,606	8,763

Note: Diluted weighted average outstanding shares were 25,930mn units in 4Q16

Financial Highlights:

Fourth Quarter 2016

- Net revenue was NT\$262.23 billion, representing a 0.7% increase from NT\$260.41 billion in 3Q16 and a 28.8% increase from NT\$203.52 billion in 4Q15.
- Gross margin was 52.3%, 1.6 percentage points higher than 3Q16 and 3.7 percentage points higher than 4Q15.
- Operating margin was 41.9%, up 1.1 percentage points from 3Q16 and up 3.6 percentage points from 4Q15.
- Non-operating items were a gain of NT\$2.14 billion, compared to a gain of NT\$1.99 billion in 3Q16 and a gain of NT\$2.68 billion in 4Q15.
- Net income attributable to shareholders of the parent company was NT\$100.20 billion, up 3.6% from 3Q16 and up 37.6% from 4Q15. Net profit margin was 38.2% and diluted EPS was NT\$3.86.

Full Year 2016

- Net revenue was NT\$947.94 billion, representing a 12.4% increase from 2015. In US dollar terms, net revenue increased 10.6% to US\$29.43 billion in 2016.
- Gross margin was 50.1%, up 1.4 percentage points from 48.7% in 2015. Operating margin was 39.9%, up 2.0 percentage points from 37.9% in 2015.
- Diluted EPS was NT\$12.89, up 9.0% from NT\$11.82 in 2015. Net profit margin was 35.3%, down 1.0 percentage point from 36.3% in 2015. The year-over-year decrease in net profit margin rate mainly reflected the one-off disposal gains of ASML shares in 2015.

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I. Revenue Analysis

Wafer Revenue by Application	4Q16	3Q16	4Q15
Computer	8%	8%	9%
Communication	66%	60%	62%
Consumer	6%	11%	6%
Industrial/Standard	20%	21%	23%

Wafer Revenue by Technology	4Q16	3Q16	4Q15
16/20nm	33%	31%	24%
28nm	24%	24%	25%
40/45nm	12%	13%	14%
65nm	11%	11%	11%
90nm	5%	5%	7%
0.11/0.13um	2%	3%	3%
0.15/0.18um	10%	9%	11%
0.25um and above	3%	4%	5%

Net Revenue by Geography	4Q16	3Q16	4Q15
North America	69%	68%	69%
Asia Pacific	11%	15%	10%
China	8%	6%	9%
EMEA	6%	6%	6%
Japan	6%	5%	6%

Wafer Revenue by Technology	2016	2015
16/20nm	28%	20%
28nm	26%	28%
40/45nm	14%	14%
65nm	11%	12%
90nm	5%	7%
0.11/0.13um	2%	2%
0.15/0.18um	10%	12%
0.25um and above	4%	5%

68%
12%
8%
7%
5%

Revenue Analysis:

In the fourth quarter, revenue increased 0.7% quarterover-quarter as smartphone market continued to be robust.

By application, Communication and Computer increased 11% and 7%, respectively, while Consumer and Industrial/Standard decreased 43% and 6%, respectively.

By technology, the combined 16/20nm contribution was 33% of total wafer revenue in the fourth quarter. Advanced technologies (28nm and below) accounted for 57% of total wafer revenue, up from 55% in 3Q16.

From a geographic perspective, revenue from customers based in North America accounted for 69% of total net revenue, while revenue from Asia Pacific, China, EMEA (Europe, Middle East, and Africa) and Japan accounted for 11%, 8%, 6%, and 6% of total net revenue, respectively.

On a full year basis, the combined 16/20nm contribution reached 28% of total wafer revenue in 2016, up from 20% in 2015. Advanced technologies (28nm and below) accounted for 54% of total wafer revenue, up from 48% in 2015.

In 2016, revenue from customers based in North America accounted for 65% of total wafer revenue, while revenue from Asia Pacific, China, EMEA (Europe, Middle East, and Africa) and Japan accounted for 15%, 9%, 6%, and 5% of total net revenue, respectively.

II. Profit & Expense Analysis

II - 1. Gross Profit Analysis (In NT\$ billions) <u>4Q16</u> 3Q16 4Q15 <u>2016</u> <u>2015</u> Cost of Revenue 125.12 128.36 104.59 473.11 433.10 **Gross Profit** 137.11 132.05 98.93 474.83 410.40 **Gross Margin** 52.3% 50.7% 48.6% 50.1% 48.7%

Gross Profit Analysis:

Gross margin was 52.3% in 4Q16, 1.6 percentage points higher than 3Q16, mainly driven by continued cost improvement.

On a full year basis, gross margin was 50.1% in 2016, up 1.4 percentage points from 2015, mainly reflecting continued cost improvement and a more favorable exchange rate.

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II - 2. Operating Income Analysis							
(In NT\$ billions)	<u>4Q16</u>	<u>3Q16</u>	<u>4Q15</u>	<u>2016</u>	<u>2015</u>		
Total Operating Expenses	(27.18)	(25.84)	(21.22)	(96.90)	(88.47)		
Research & Development	(19.96)	(18.72)	(15.67)	(71.21)	(65.55)		
SG&A	(7.22)	(7.12)	(5.55)	(25.69)	(22.92)		
Other Operating Income and Expenses	(0.02)	0.05	0.25	0.03	(1.88)		
Operating Income	109.91	106.26	77.96	377.96	320.05		
Operating Margin	41.9%	40.8%	38.3%	39.9%	37.9%		
Total Operating Expenses as % of Net Revenue	10.4%	9.9%	10.4%	10.2%	10.5%		

Operating Income Analysis:

Total operating expenses represented 10.4% of net revenue in 4Q16 and increased NT\$1.34 billion to NT\$27.18 billion, primarily driven by a higher level of development activities for 7nm and 10nm technologies.

For full year 2016, total operating expenses represented 10.2% of net revenue, compared to 10.5% in 2015.

II - 3. Non-Operating Items							
(In NT\$ billions)	<u>4Q16</u>	<u>3Q16</u>	<u>4Q15</u>	<u>2016</u>	<u>2015</u>		
L-T Investments	0.88	0.88	1.26	3.50	4.13		
SSMC	0.56	0.52	0.55	1.91	2.48		
Others	0.32	0.36	0.71	1.59	1.65		
Interest Expenses	(0.81)	(0.82)	(0.82)	(3.31)	(3.19)		
Other Gains and Losses	2.07	1.93	2.24	7.81	29.44		
Total Non-Operating Items	2.14	1.99	2.68	8.00	30.38		

Non-Operating Items:

Total non-operating items were a gain of NT\$2.14 billion in 4Q16, compared to a gain of NT\$1.99 billion in 3Q16.

On a full year basis, total non-operating items decreased by NT\$22.38 billion to a gain of NT\$8.00 billion in 2016, mainly reflecting the disposal gains of NT\$22.07 billion on ASML shares in 2015.

II - 4. Net Profit and EPS (In NT\$ billions)	<u>4Q16</u>	<u>3Q16</u>	<u>4Q15</u>	<u>2016</u>	<u>2015</u>	
Income before Income Tax	112.05	108.25	80.64	385.96	350.43	
Income Tax Expenses	(11.82)	(11.46)	(7.80)	(51.62)	(43.87)	
Effective Tax Rate	10.6%	10.7%	9.9%	13.5%	13.5%	
Net Income Attributable to the						
Parent Company	100.20	96.76	72.84	334.25	306.57	
Net Profit Margin	38.2%	37.2%	35.8%	35.3%	36.3%	
EPS (NT\$ per common share)	3.86	3.73	2.81	12.89	11.82	

Net Profit and EPS:

Net income attributable to shareholders of the parent company was NT\$100.20 billion, up 3.6% from 3Q16 and up 37.6% from 4Q15.

On a full year basis, both net income and EPS increased by 9.0% from 2015. Excluding major one-off items (namely gains from share disposals of NT\$0.84 per share and loss of NT\$0.08 per share on cease of Solar operations in 2015, and negative impact of NT\$0.09 per share from the earthquake in 2016), EPS would have increased 17.4% year-over-year.

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III. Financial Condition Review

III - 1. Liquidity Analysis (Balance Sheet Items)			
(In NT\$ billions)	<u>4Q16</u>	<u>3Q16</u>	<u>4Q15</u>
Cash & Marketable Securities	632.11	516.95	586.16
Accounts Receivable	129.31	129.29	85.57
Inventories	48.68	53.88	67.05
Other Current Assets	7.63	9.47	7.96
Total Current Assets	817.73	709.59	746.74
Short-term Loans	57.96	37.65	39.47
Accounts Payable	90.48	84.77	45.74
Current Portion of Bonds Payable and Bank Loans	38.11	38.11	23.52
Accrued Liabilities and Others	131.69	97.03	103.50
Total Current Liabilities	318.24	257.56	212.23
Current Ratio (x)	2.6	2.8	3.5
Net Working Capital	499.49	452.03	534.51

Liquidity Analysis:

At the end of 4Q16, cash and marketable securities increased by NT\$115.16 billion to NT\$632.11 billion, primarily attributable to free cash flow of NT\$72.68 billion generated during the quarter (please refer to page 6) and the increase of NT\$19.13 billion in short-term loans.

Total current liabilities increased by NT\$60.68 billion, mainly reflecting the increase in short-term loans and the increase in accrued liabilities, including the accrual for income tax payable and for employee profit sharing/bonus.

Net working capital was NT\$499.49 billion and current ratio was 2.6x.

III - 2. Receivable/Inventory Days (In Number of Days) 4Q16 3Q16 4Q15 Days of Receivable 45 42 41 Days of Inventory 41 44 62

Receivable and Inventory Days:

Days of receivable increased 3 days to 45 days in 4Q16.

Days of inventory decreased 3 days from 44 days in 3Q16 to 41 days in 4Q16, mainly due to reduction in work-in-process as a result of strong 16nm wafer shipments during the quarter.

Days of inventory decreased 21 days from 62 days in 4Q15, reflecting strong shipments of leading edge wafers during the year and improving cycle time.

III - 3. Debt Service (In NT\$ billions) 4Q16 3Q16 4Q15 Cash & Marketable Securities 632.11 516.95 586.16 Interest-Bearing Debts (249.18) (227.92) (254.99) Net Cash Reserves 382.93 289.03 331.17

Debt Service:

Net cash reserves increased NT\$93.90 billion to NT\$382.93 billion in 4Q16, reflecting the increase of NT\$115.16 billion in cash & marketable securities, offset by the increase in short-term loans.

IV. Cash Flow

IV - 1. Quarterly Cash Flow Analysis							
(In NT\$ billions)	<u>4Q16</u>	<u>3Q16</u>	<u>4Q15</u>				
Income before Income Tax	112.05	108.25	80.64				
Depreciation & Amortization	56.44	56.27	56.26				
Other Operating Sources/(Uses)	16.73	(38.11)	7.77				
Total Operating Sources/(Uses)	185.22	126.41	144.67				
Capital Expenditures	(112.54)	(103.78)	(84.52)				
Marketable Financial Instruments	(27.74)	(8.91)	(15.87)				
Other Investing Sources/(Uses)	1.78	5.80	(0.79)				
Net Investing Sources/(Uses)	(138.50)	(106.89)	(101.18)				
Increase (Decrease) in Short-term Loans	19.13	0.00	5.77				
Cash Dividends	0.00	(155.58)	0.00				
Other Financing Sources/(Uses)	5.17	(13.61)	(0.45)				
Net Financing Sources/(Uses)	24.30	(169.19)	5.32				
Exchange Rate Changes and Other	6.26	(8.72)	(1.85)				
Net Cash Position Changes	77.28	(158.39)	46.96				
Ending Cash Balance	541.25	463.97	562.69				

Summary of Cash Flow:

During the fourth quarter, cash generated from operating activities totaled NT\$185.22 billion, including (1) NT\$56.44 billion from depreciation & amortization expenses and (2) NT\$16.73 billion from other operating sources.

Net cash used in investing activities was NT\$138.50 billion in 4Q16, primarily including capital expenditures of NT\$112.54 billion and net purchases of NT\$27.74 billion in fixed income securities.

Cash flow from financing activities was NT\$24.30 billion, mainly reflecting the increase in short-term loans for hedging purposes.

As a result, net cash position increased NT\$77.28 billion to NT\$541.25 billion at the end of 4Q16.

IV - 1.2. Annual Cash Flow Analysis							
(In NT\$ billions)	<u>2016</u>	<u>2015</u>	<u>Diff.</u>				
Income before Income Tax	385.96	350.43	35.53				
Depreciation & Amortization	223.83	222.51	1.32				
Other Operating Sources/(Uses)	(69.95)	(43.05)	(26.90)				
Total Operating Sources/(Uses)	539.84	529.89	9.95				
Capital Expenditure	(328.05)	(257.52)	(70.53)				
Marketable Financial Instruments	(76.38)	32.72	(109.10)				
Other Investing Sources/(Uses)	8.99	7.54	1.45				
Net Investing Sources/(Uses)	(395.44)	(217.26)	(178.18)				
Short-term Loans	18.97	3.14	15.83				
Cash Dividends	(155.58)	(116.68)	(38.90)				
Other Financing Sources/(Uses)	(21.19)	(3.19)	(18.00)				
Net Financing Sources/(Uses)	(157.80)	(116.73)	(41.07)				
Exchange Rate Changes and Other	(8.04)	8.34	(16.38)				
Net Cash Position Changes	(21.44)	204.24	(225.68)				
Ending Cash Balance	541.25	562.69	(21.44)				

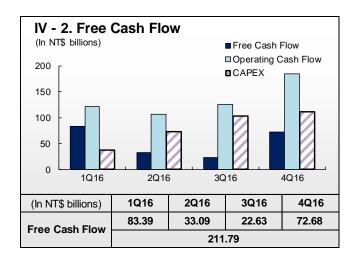
On a full year basis, cash generated from operating activities totaled NT\$539.84 billion, including (1) NT\$223.83 billion from depreciation & amortization, and (2) NT\$69.95 billion for other operating uses, which mainly included income tax payment and the changes in working capital.

Net cash used in investing activities were NT\$395.44 billion, primarily including capital expenditures of NT\$328.05 billion and net purchases of NT\$76.38 billion in fixed income securities.

Net cash used in financing activities totaled NT\$157.80 billion, mainly reflecting the payment of cash dividends and the repayment of corporate bonds, partially offset by the increase in short-term loans.

At the end of 2016, cash position reached NT\$541.25 billion.

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Operating and Free Cash Flow:

Free cash flow was NT\$72.68 billion in 4Q16, an increase of NT\$50.05 billion, reflecting healthy operating cash flow during the quarter.

Total free cash flow generated in 2016 was NT\$211.79 billion, a decrease of NT\$60.58 billion from NT\$272.37 billion in 2015 mainly due to higher capital expenditures.

V. CapEx

V. Capital Expenditures					
(in US\$ billions)	<u>4Q16</u>	<u>3Q16</u>	<u>2Q16</u>	<u>1Q16</u>	<u>2016</u>
Capital Expenditures	3.53	3.25	2.26	1.15	10.19

Capital Expenditures:

Capital expenditures for TSMC on a consolidated basis totaled US\$3.53 billion in 4Q16 and US\$10.19 billion for the year.

VI. Recap of Recent Important Events & Announcements

