# Financial Results Second Quarter Fiscal 2018 



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During the course of this meeting, we may make projections or other forwardlooking statements regarding future events or the future financial performance of the Company and the industry. We wish to caution you that such statements are predictions and that actual events or results may differ materially. We refer you to the documents the Company files from time to time with the Securities and Exchange Commission, specifically the Company's most recent Form 10-K and Form 10-Q. These documents contain and identify important factors that could cause the actual results for the Company to differ materially from those contained in our projections or forward-looking statements. These certain factors can be found at http://www.micron.com/certainfactors. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance, or achievements. We are under no duty to update any of the forward-looking statements after the date of the presentation to conform these statements to actual results.

# Sanjay Mehrotra <br> President and CEO 



## FQ2-18 Strong Execution

- Delivered record revenue, gross profit, EPS and cash generation
- Robust Mobile growth driven by Managed NAND \& low-power DDR4
- Increased SSD market share; total SSD sales up 80\% Y/Y
- Qualified 1X nm DRAM at 3 of the largest Hyperscale customers
- Achieved record Automotive design wins in 1H FY-18


## End Market Trends

- Capabilities to enhance user experience require more memory and storage
- High-end smartphones migrating to 6GB LPDRAM and >64 GB NAND
- Micron is addressing with power efficient LPDRAM \& TLC Managed NAND

- New AI "smart cockpits" in Autos create need for datacenter on wheels
- More compute intensive features (voice/gesture recognition, driver alerts)
- Micron is addressing with auto grade LPDDR4 \& high-bandwidth graphics

- Rapid analysis and storage in datacenter complements edge compute
- Driving significant datacenter investment and demand for memory \& storage
- Micron is addressing with broad technology portfolio


## Industry Outlook

## DRAM

- Healthy demand environment with secular growth drivers
- CY-18 Industry bit output growth in the $20 \%$ range
- CY-18 Micron bit output growth in-line with Industry

NAND

- More balanced Industry dynamic in CY-18
- CY-18 Industry bit output growth somewhat higher than $45 \%$
- CY-18 Micron bit output growth somewhat above Industry


## Strengthening Our Competitive Position

- Successfully making technology and cost improvements
- Accelerating DRAM technology cadence, ramping 1X nm faster than prior nodes
- On track to achieve 1X nm DRAM bit crossover by the end of CY-18
- On track to achieve 64L 3D NAND bit crossover in 2H FY-18
- Executing development plans for next generation technologies
- Expect to deliver samples of 1Y nm DRAM and $3^{\text {rd }}$ gen 3D NAND by end of FY-18
- Expect to ramp initial volume for these nodes in 2 HCY -18


# Dave Zinsner 

Chief Financial Officer

## FQ2 2018 Financial Results Summary

- Revenue of $\$ 7.35$ billion
- GAAP results
- Gross margin: 58\%
- Net income: $\$ 3.31$ billion
- Diluted EPS: \$2.67
- Non-GAAP results
- Gross margin: 58\%
- Net income: $\$ 3.50$ billion
- Diluted EPS: \$2.82
- Non-GAAP operating expenses of $\$ 666$ million


## Compute \& Networking Business Unit

|  | FQ2-18 |  | FQ1-18 | FQ2-17 | CNE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Revenue | \$ | 3.69B | 3.21B | 1.92B |  |
| \% of total company revenue |  | 50\% | 47\% | 41\% |  |
| Operating income | \$ | 2.33B | 1.91B | 736M |  |
| Operating income \% |  | 63\% | 60\% | 38\% |  |

- Revenue up 15\% Q/Q and up 93\% Y/Y
- Cloud server revenue up 28\% Q/Q driven by Hyperscale customers
- Strong demand for graphics memory from gaming and crypto-mining


## Mobile Business Unit



- Record revenue up 15\% Q/Q and 45\% Y/Y
- Strength from growing portfolio of Managed NAND and industry leading power efficient LPDRAM products


## Embedded Business Unit

|  | FQ2-18 |  | FQ1-18 | FQ2-17 |
| :---: | :---: | :---: | :---: | :---: |
| Revenue | \$ | 829M | 830M \$ | 590M |
| \% of total company revenue |  | 11\% | 12\% | 13\% |
| Operating income | \$ | 363M | 342M \$ | 193M |
| Operating income \% |  | 44\% | 41\% | 33\% |

- Revenue flat Q/Q and up $41 \% \mathrm{Y} / \mathrm{Y}$
- Record quarter for Automotive, driven by ADAS and in-vehicle experience
- Growth in Industrial Internet of Things markets


## Storage Business Unit

|  | FQ2-18 | FQ1-18 | FQ2-17 |  |
| ---: | :---: | :---: | :---: | :---: |
| Revenue | $\$$ | 1.25 B | $\$$ | 1.38 B |

- Revenue increased 20\% Y/Y due to increased SSD market share
- Record quarterly sales of SSDs in FQ2-18
- Q/Q revenue decline due to reduction in Components revenue


## Performance by Product Line

## DRAM

- 71\% of overall company revenue in FQ2-18
- Revenue up $14 \%$ Q/Q and up $76 \%$ Y/Y
- Shipment quantities up mid-single digit percent range Q/Q
- ASPs up low double-digit percent Q/Q
- Non-GAAP Gross Margin of $66 \%$ in FQ2-18 vs $62 \%$ in FQ1-18, 44\% in FQ2-17


## Trade NAND

- $25 \%$ of overall company revenue in FQ2-18
- Revenue down 3\% Q/Q and up 28\% Y/Y
- Shipment quantities up low double-digit percent range $\mathrm{Q} / \mathrm{Q}$
- ASPs down mid-teens percent Q/Q
- Non-GAAP Gross Margin of $47 \%$ in FQ2-18 vs $49 \%$ in FQ1-18, 31\% in FQ2-17


## Other Financial Metrics

- Operating cash flow
- \$4.3 billion in FQ2-18
- Capital expenditures, net of partner contributions
- $\$ 2.1$ billion spent in FQ2-18
- Free cash flow*
- \$2.2 billion in FQ2-18
- Cash, marketable investments \& restricted cash
- $\$ 8.7$ billion at the end of FQ2-18
- Face value debt
- $\$ 9.5$ billion at the end of FQ2-18

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## FQ3 2018 Guidance

Non-GAAP

|  | FQ3-18 Guidance |
| :--- | ---: |
| Revenue | $\$ 7.20$ billion $-\$ 7.60$ billion |
| Gross margin | $57 \%-60 \%$ |
| Operating expenses | $\$ 725$ million $+/-\$ 25$ million |
| Operating income | $\$ 3.60$ billion $-\$ 3.80$ billion |
| Diluted EPS* | $\$ 2.83+/-\$ 0.07$ |

## Q\&A

## Financial Summary

Non-GAAP

| Dollars in millions, except per share | FQ2-18 | \% of Sales | FQ1-18 | \% of Sales | FQ2-17 | \% of Sales |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | 7,351 | 100\% | 6,803 | 100\% | 4,648 | 100\% |
| Gross margin | 4,296 | 58\% | 3,769 | 55\% | 1,789 | 38\% |
| Operating income | 3,630 | 49\% | 3,157 | 46\% | 1,177 | 25\% |
| Income tax (provision) benefit | (99) |  | (91) |  | (31) |  |
| Net income attributable to Micron | 3,495 | 48\% | 2,994 | 44\% | 1,031 | 22\% |
| Diluted earnings per share | 2.82 |  | 2.45 |  | 0.90 |  |
| Cash provided by operating activities* | 4,348 |  | 3,636 |  | 1,766 |  |
| Cash, marketable investments, and restricted cash | 8,675 |  | 6,610 |  | 4,584 |  |

*FQ2-17 operating cash flows of $\$ 1,766$ million is equal to GAAP operating cash flows of $\$ 1,405$ million, plus $\$ 361$ million of the Inotera purchase price, which was reflected for GAAP as an operating cash outflow

## Non-GAAP Reconciliations

## Consolidated Results

## Non-GAAP Reconciliations

| Amounts in millions, except per share amounts | FQ2-18 |  | FQ1-18 |  | FQ2-17 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GAAP net income attributable to Micron | \$ | 3,309 | \$ | 2,678 | \$ | 894 |
| Non-GAAP adjustments: |  |  |  |  |  |  |
| Stock-based compensation |  | 52 |  | 51 |  | 55 |
| Flow-through of Inotera inventory step up |  | - |  | - |  | 60 |
| Inotera acquisition costs |  | - |  | - |  | 12 |
| Restructure and asset impairments |  | 7 |  | 6 |  | 4 |
| Amortization of debt discount and other costs |  | 26 |  | 29 |  | 31 |
| Loss on debt repurchases and conversions |  | 23 |  | 195 |  | - |
| (Gain) loss from changes in currency exchange rates |  | 27 |  | 9 |  | 28 |
| (Gain) loss from business acquisition activities |  | - |  | - |  | (71) |
| Other |  | 7 |  | 3 |  | 11 |
| Impact of U.S. income tax reform |  | 131 |  | - |  | - |
| Estimated tax effects of above and changes in net deferred income taxes |  | (87) |  | 23 |  | 7 |
| Total non-GAAP adjustments |  | 186 |  | 316 |  | 137 |
| Non-GAAP net income attributable to Micron | \$ | 3,495 | \$ | 2,994 | \$ | 1,031 |
| GAAP shares used in diluted EPS calculations |  | 1,238 |  | 1,225 |  | 1,160 |
| Adjustment for stock-based compensation and effect of capped calls |  | 2 |  | (5) |  | (14) |
| Non-GAAP shares used in diluted EPS calculations |  | 1,240 |  | 1,220 |  | 1,146 |
| GAAP diluted earnings per share | \$ | 2.67 | \$ | 2.19 | \$ | 0.77 |
| Effects of above |  | 0.15 |  | 0.26 |  | 0.13 |
| Non-GAAP diluted earnings per share | \$ | 2.82 | \$ | 2.45 | \$ | 0.90 |

## Consolidated Statement of Operations

## FQ2 2018 Non-GAAP Reconciliation

| Amounts in millions | GAAP |  | Adjustments |  | Non-GAAP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$ | 7,351 | \$ | - |  | \$ | 7,351 |
| Cost of goods sold |  | 3,081 |  | (26) | A,H |  | 3,055 |
| Gross margin |  | 4,270 |  | 26 |  |  | 4,296 |
|  |  |  |  |  |  |  |  |
| Selling, general, and administrative |  | 196 |  | (16) | B |  | 180 |
| Research and development |  | 523 |  | (14) | C |  | 509 |
| Other operating (income) expense |  | (16) |  | (7) | D |  | (23) |
| Total operating expenses |  | 703 |  | (37) |  |  | 666 |
| Operating income |  | 3,567 |  | 63 |  |  | 3,630 |
|  |  |  |  |  |  |  |  |
| Interest expense, net |  | (61) |  | 26 | E |  | (35) |
| Other non-operating income (expense), net |  | (53) |  | 53 | F,G,H |  | - |
|  |  | 3,453 |  | 142 |  |  | 3,595 |
| Income tax (provision) benefit |  | (143) |  | 44 | I, J |  | (99) |
| Equity in net income (loss) of equity method investees |  | 1 |  | - |  |  | 1 |
| Net income |  | 3,311 |  | 186 |  |  | 3,497 |
| Net income attributable to noncontrolling interests |  | (2) |  | - |  |  | (2) |
| Net income attributable to Micron |  | 3,309 |  | 186 |  |  | 3,495 |

## Consolidated Statement of Operations <br> FQ2 2018 Non-GAAP Reconciliation (continued)

| Amounts in millions |  |  |
| :--- | :--- | :--- |
|  |  |  |
| A | Stock-based compensation - cost of goods sold | $\$$ |
| B | Stock-based compensation - sales, general, and administrative | 22 |
| C | Stock-based compensation - research and development | 16 |
| D | Restructure and asset impairments | 14 |
| E | Amortization of debt discount and other costs | 7 |
| F | Loss on debt repurchases and conversions | 26 |
| G | (Gain) loss from changes in currency exchange rates | 23 |
| H | Other | 27 |
| I | Impact of U.S. income tax reform | 7 |
| J | Estimated tax effects of above and non-cash changes in net deferred income taxes | 131 |

## Summary Key Data

## Non-GAAP Financial Data and Guidance

| \% of Revenue | FQ2-18 | FQ2-17 |  | FQ2-18 Non-GAAP (amounts in millions, except per share) | FQ3-18 Non-GAAP Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Trade NAND* | 25\% | 30\% | Revenue \$ | \$ 7,351 | \$7.20-\$7.60 billion |
|  |  |  | Gross margin | 58\% | 57\%-60\% |
| \% Shipments Change | $\begin{gathered} \text { FQ2-18 } \\ \text { Q/Q } \\ \hline \end{gathered}$ | $\begin{gathered} \text { FQ2-18 } \\ \mathrm{Y} / \mathrm{Y} \end{gathered}$ | Operating expenses \$ | \$ 666 | \$725 million +/- \$25 million |
| DRAM | Increased mid single digit | Increased low $20 \%$ range | Operating income \$ | \$ 3,630 | \$3.60-\$3.80 billion |
| Trade NAND* | Increased low double digit | Increased low $40 \%$ range | Earnings per share \$ | \$ 2.82 | \$2.83 +/- \$0.07 |
| \% ASP Change | $\begin{gathered} \text { FQ2-18 } \\ \text { Q/Q } \end{gathered}$ | $\begin{gathered} \text { FQ2-18 } \\ \mathrm{Y} / \mathrm{Y} \\ \hline \end{gathered}$ |  | FQ2-18 Non-GAAP (amounts in millions) | FQ3-18 Non-GAAP Estimates |
| DRAM | Increased low double digit | Increased low $40 \%$ range | Net interest expense \$ | \$ 35 | $\sim$ ~30 million |
| Trade NAND* | Decreased midteens range | Decreased high single digit | Diluted shares | 1,240 | $\sim 1,249$ million |
|  |  |  | Tax (provision) benefit \$ | \$ (99) | $\sim(\$ 125$ million) |
| Gross Margin | FQ2-18 | FQ2-17 | Operating cash flow \$ | \$ 4,348 | - |
| DRAM | 66\% | 44\% | Depreciation and amortization \$ | \$ 1,149 | - |
| Trade NAND* | 47\% | 31\% | Capital expenditures (Capital cash flow) (a) | \$ 2,112 | FY-18: $\$ 7.5$ billion +/- $5 \%$ |

See Non-GAAP reconciliations
*Trade NAND excludes products sold to Intel through IMFT under a long-term supply agreement at prices approximating cost. (a) Net of amounts funded by partners

## Convertible Notes Dilution Overview

FQ2 2018 (shares in millions)

quicron


[^0]:    *Free cash flow consists of cash provided by operating activities less investments in capital expenditures, net of partner contributions.

