UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): January 14, 2020

DIODES INCORPORATED

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

002-25577 (Commission File Number)

95-2039518 (IRS Employer Identification No.)

4949 Hedgcoxe Road, Suite 200, Plano, TX ress of Principal Executive Offices

75024 (Zip Code)

Registrant's Telephone Number, Including Area Code: (972) 987-3900

Not Applicable (Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instructions A.2. below):

П Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

П Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act: Title of each class Trading

Symbol(s)

Common Stock, Par Value \$0.66 2/3 The NASDAQ Stock Market LLC DIOD

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Name of each exchange on which registered

Emerging growth company $\ \square$

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 8.01

Other Events.

From time to time, Diodes Incorporated (the "Company") may give corporate presentations to its customers, suppliers and other related interested parties. Copies of the Company's corporate presentation slides, updated on January 14, 2020, are attached herewith as Exhibit 99.1.

Forward-Looking Statements

The Presentation attached to this Current Report on Form 8-K as Exhibit 99.1 contains forward-looking statements that involve future risks and uncertainties as contemplated by the safe harbor provided by the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, included in Exhibit 99.1 should be regarded as "forward-looking statements" and Exhibit 99.1 contains a more detailed listing of the risks and uncertainties associated with those forward-looking statements. Diodes undertakes no obligation to update publicly any forward-looking statements, whether as a result of new information, future events or otherwise.

Item 9.01

Financial Statements and Exhibits.

(d) Exhibits.

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Exhibit Number 99.1

Description Corporate Presentation Slides

Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: January 14, 2020

DIODES INCORPORATED

/s/ Brett R. Whitmire By

Brett R. Whitmire Chief Financial Officer



22nd Annual Needham Growth Conference

New York, NY January 14th, 2020

www.diodes.com

Any statements set forth herein that are not historical facts are forward-looking statements that involve risks and uncertainties that could cause actual results to differ materially from those in the forward-looking statements. Such forward-looking statements include, but are not limited to, statements regarding updates to Diodes incorporated's fourth quarter 2019 business outlook as of November 4, 2019, which include the following: expect revenue to be approximately \$300 million, plus or minus 2.0 percent, which at the mid-point represents annual growth of 2.8 percent even in the overall weak market environment and continued outperformance of our served market; expect GAAP gross margin to be 36.5 percent, plus or minus 1 percent; non-GAAP operating expenses, which are GAAP operating expenses adjusted for amortization of acquisition-related intangible assets, are expected to be approximately 22.0 percent of revenue, plus or minus 1 percent; shares used to calculate diluted EPS for the second quarter are anticipated to be approximately \$2.5 million; expect tax are to be 21 percent, plus or minus 3 percent; shares used to calculate diluted EPS for the second quarter are anticipated to be approximately \$2.5 million; purchase accounting adjustments for Pericom and previous acquisitions of \$3.7 million after tax are not included in these non-GAAP estimates; and other statements identified by words such as "estimates," "expects," "projects," "plans," "will," and similar expressions.

Potential risks and uncertainties include, but are not limited to, such factors as: the risk that such expectations may not be met; the risk that the expected benefits of acquisitions may not be realized or that integration of acquired businesses may not continue as rapidly as we anticipate; the risk that we may not be able to maintain our current performance, costs, and loadings in our manufacturing facilities; the risk that we may not be able to maintain our current performance, costs, and loadings in our manufacturing facilities; the risk that we may not be able to increase our automotive, industrial, or other revenue and market share; risks of domestic and foreign operations, including excessive operation costs, labor shortages, higher tax rates, and our joint venture prospects; the risk that we may not continue our share repurchase program; the risks of cyclical downturns in the semiconductor industry and of changes in end-market demand or product mix that may affect gross margin or render inventory obsolete; the risk or unfavorable currency exchange rates; the risk that our future outlook or guidance may be incorrect; the risks of global economic weakness or instability in global financial markets; the risks of trade restrictions, tariffs, or embargoes; the risk of unfavorable correnct weating commission.

This presentation also contains non-GAAP measures. See the Company's press release on November 4, 2019 titled, "Diodes Incorporated Reports Third Quarter Financial Results" for detailed information related to the Company's non-GAAP measures and a reconciliation of GAAP net income to non-GAAP net income.



Dr. Keh-Shew Lu

President and CEO

Diodes IncorporatedSince 2005Texas Instruments27 years

Experience:

- Senior Vice President of TI Worldwide Analog and Logic
- President of Texas Instruments Asia

Education:

- Master's Degree and Doctorate in Electrical Engineering Texas Tech University
- Bachelor's Degree in Engineering National Cheng Kung University - Taiwan





Laura Mehrl (冯蓉媞)

Company spokesperson, Director of Investor Relations Since May 2010

Experience:

- Director of Investor Relations, Diodes Incorporated, Plano, Texas
- Senior Business Development Manager, STMicroelectronics, Carrollton, Texas
- Sales Director for Analog Devices Inc., Shanghai, China
- Product Marketing Manager at Texas Instruments (TI), Dallas, Texas
- Senior Engineer at Lattice Semiconductor Inc., Hillsboro, Oregon
- Wafer fab design engineer and product engineer at TI, Lubbock, Texas

Education:

- MBA with concentration in International Marketing, Texas Tech University
- BS in Electrical and Computer Engineering, University of Iowa



A leading global manufacturer and supplier of high-quality **application specific, standard products** within the broad discrete, logic, analog and mixed-signal markets, serving the **Automotive, Industrial, Consumer, Communications,** and **Computing** segments.





Company Overview

Global Operations and World-class Manufacturing & Packaging

- NASDAQ: DIOD
- Founded in 1959
- Headquartered in Plano, TX; 21 locations globally
- Manufacturing in UK, Germany, China, and Taiwan
- ISO9001:2008 Certified / TS16949:2009 Certified ISO14001 Certified
- Key acquisitions:
 - Anachip Corporation, Taiwan Jan. 2006
 - Advanced Power Devices Nov. 2006
 - Zetex June 2008
 - Power Analog Microelectronics (PAM) Oct. 2012
 - BCD Semiconductor Mar. 2013
 - Pericom Semiconductor Nov. 2015
 - TI Greenock fab April 2019
- Over 7320 employees worldwide
- 27 consecutive years of profitability

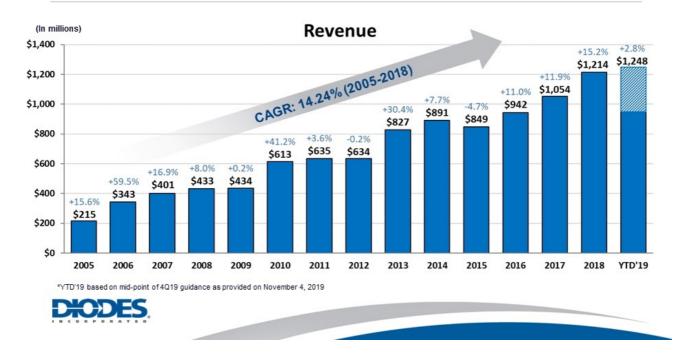




Global Organization - TS16949 Manufacturing



Track Record of Consistent Growth



Record Annual Revenue in 2018; Projected to Achieve New Record in 2019



Shifting Gears to Profitability Growth

Mission: Profitability growth to expand shareholder value

Strategy: Grow Revenue to \$2.5B at 40% Gross Margin

Goal: \$1B Gross Profit by 2025





| Business Mo | odel | | | | |
|---------------------|--------|---------------|------|-----------------|-----|
| | 2018 | | 2025 | Implied CAGR | |
| Revenue | \$1.2B | \rightarrow | 2.5B | 10.9% | |
| Gross Margin | 35% | \rightarrow | 40% | | |
| Gross Profit | \$435M | \rightarrow | \$1B | 12.6% | |
| R&D% | 5% | \rightarrow | 7% | | |
| SG&A% | 15% | \rightarrow | 13% | | 2LL |
| Op. Profit | 15% | \rightarrow | 20% | | |

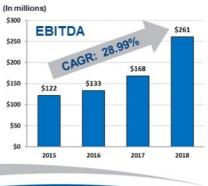


Gross Profit Target of \$1B in 2025



Solid Operating Leverage:

- Managing OpEx to target model of 20% of revenue
- CapEx remains within target model of 5-9% of revenue
- Generating record earnings and cash flow





Automotive Applications Driving Growth

Focus Applications:

Connected Driving

- ADAS (Advanced Driver Assistance Systems)
- Telematics
- Infotainment Systems

Comfort, Style and Safety

- Lighting
- Migration to LED and intelligent illumination
 BLDC motor control
 Migration from Brushed
- to Brushless DC Motors

Electrification/Powertrain

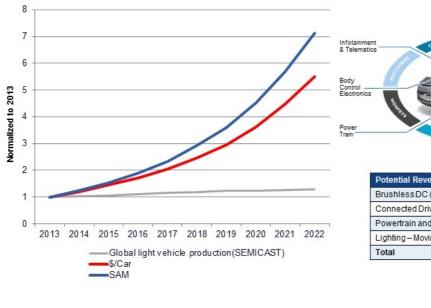
- Conventional Powertrain → Hybrid → Electrification
- Battery management
 Move to 48V battery





Diodes Automotive Revenue

Automotive Opportunity





| wi oui |
|---------|
| \$37.25 |
| \$25.82 |
| \$14.72 |
| \$7.53 |
| \$85.32 |
| |

DEDES

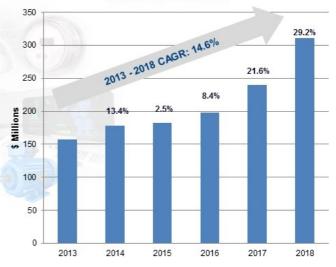
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Industrial Growth

- Increasing IC content in embedded systems
- Switching and signal path for networked systems and automation
- Signal conditioning and timing for precision controls
- Motor controls, sensors and power management for smart meters

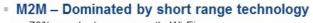
For the 1H2019, 29% of total revenue is from Industrial market





Industrial Revenue

IoT – Machine to Machine (M2M)



- 73% are short range, mostly Wi-Fi
- 2017: connections @ 750 million
- 2023: connections @ 2600 million

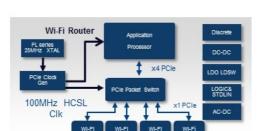
M2M – By Product - IoT and M2M Modems

- Wireless beacons

= Routers

- POS

- M2M By Application - Smart Infrastructure
 - = POS
 - Manufacturing / Industrial





- Power
- XTAL and clock
- Packet switch

| Diodes Key Products | \$ / Device | |
|-------------------------|-------------|--|
| Analog | \$0.20 | |
| PowerManagement | \$1.30 | |
| MOS/BJT | \$3.39 | |
| Diodes and Rectifiers | \$2.99 | |
| Timing and Connectivity | \$3.50 | |
| Total | \$11.38 | |

POIe/ SATA

JSB 3.0

USB 3.0 Controller

CPU

M

DC /

POS

DVI Soaler

USB Port

Xtal

Switch

Consumer: IoT Driving Power & Connectivity Requirements

276.5

FY17

\$/Box

>\$0.20

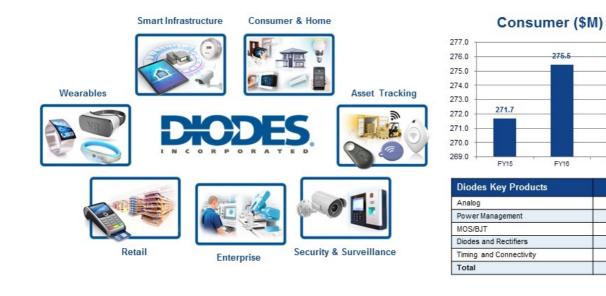
>\$1.30

>\$10.00

>\$5.00

\$3.50

\$20.00





IoT Segment: Smart Home

Smart Home – up to 477Mu

Host Controller

- Safety and Security .
- Climate Control -
- -Consumer Electronics
- . Lighting control

Growth Opportunities

- Power
- . LED driver
- Xtal and clock
- Packet switch

Smart Home Gateway

le CG C557-05

HCSL Clk

Diodes Key Products \$/Box Analog \$0.25 ~ \$0.40 Power Management \$1.80 MOS/BJT \$1.10 Diodes and Rectifiers \$0.50 Timing and Connectivity \$3.50 Total \$7.30

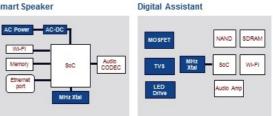
World market for connected home devices (excluding energy and controls) Unit Shipments, 2015-2020



Smart Speaker

Mem

Ethernet port





Smart Lighting

AC-DC

AC Power

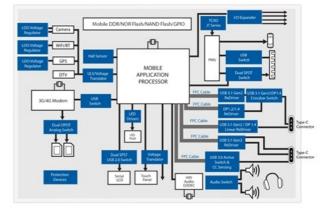
Smartphone: Efficiency, Functionality and Control

Driving Smartphone Growth

- Smart speaker/loT rising
- = AR / VR
- Foldable screens
- = 5G
- Smartwatches

Growth Opportunities

- Type-C
- = MUX
- MOSFET
- LDO, OVP LDSW, Audio, DCDC, LED/OLED Driver, ACDC



| Diodes Key Products | \$7 Phone |
|-------------------------|-----------|
| Analog | \$0.55 |
| PowerManagement | \$1.50 |
| MOS/BJT | \$0.33 |
| Diodes and Rectifiers | \$0.42 |
| Timing and Connectivity | \$3.00 |
| Total | \$5.80 |





Networking Segment

- WW enterprise and service provider router market grew 4% in 2017 to \$12.5B
- Continues to exhibit healthy growth, driven by network refreshes and investments in the fast-growing campus and datacenter segments

Growth Opportunities

- Power
- Xtal XO, and clock
- Packet switch
- ReDriver

Switching & Router Market Leaders



Nokla, Huawel, Juniper, others

10% 20% 30% 40% 50% 60% de Market Share - Revenue. Source Synergy Research Group Min

| Diodes Key Products | \$ / Router | |
|-------------------------|-------------|--|
| Analog | \$0.20 | |
| Power Management | \$0.30 | |
| MOS/BJT | \$3.70 | |
| Diodes and Rectifiers | \$2.10 | |
| Timing and Connectivity | \$13.00 | |
| Total | \$19.30 | |

- ReDriver support for USB connectivity
- Wide range of signal protocols: PCle, SAS, SATA, GbE, USB
- MUX products for high capacity solid state storage
- Crystal oscillators for increasing clocking speeds





Server Platform Solution

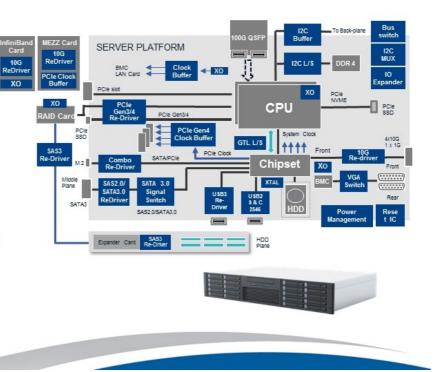
- Total unit shipment Growth (CAGR) = 3.82%
- Almost all of Server vendors are our existing customers
- ODM direct has the highest volume – mainly in TW
- Diodes products are well positioned in this segment
- Connectivity, Signal Integrity, Timing, Standard Linear, Power Management, Power Switches and Protection devices
- WW Server total shipments (Mu)



Vendors 2015 2016 2017 2018 2019 Source: IDC, Diodes Marketing

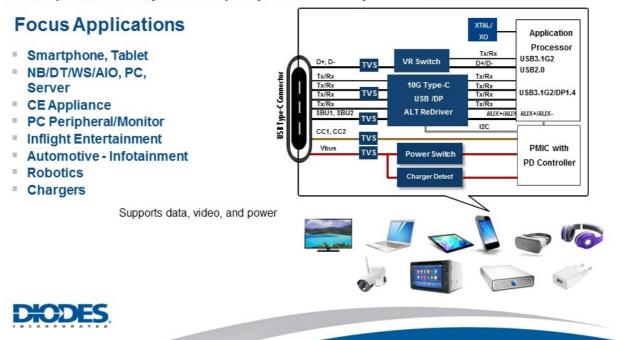
| Diodes Key Products | \$ / Server |
|---------------------|-------------|
| Analog | \$23.26 |
| Discrete | \$5.71 |
| Total | \$28.97 |

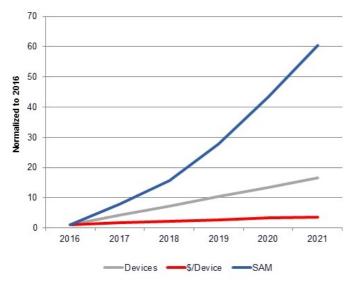




USB Type-C Applications Driving Growth

Data speed, flexibility, and simplicity of use are key drivers





| Diodes Key Products | \$ / System |
|--|-------------|
| Connectivity, Signal Integrity and Timing | \$3.25 |
| Analog (DCDC, LDO, Sleep Mode Charger etc) | \$0.89 |
| Power Management Switch | \$0.40 |
| MOSFET/BJT | \$0.25 |
| Diodes, Rectifiers and TVS | \$0.50 |
| Total (per USB-C port) | \$5.29 |

 USB-C adoption to grow from 300M (2016) to 5B units (2021)

- IHS Dec 2017



5G Applications Driving Growth

Focus Applications:

Cloud Computing

Data Center Server

Gateway

- Internet Gateway
- Fiber network

Core Network, Cell Stations

- Small Cells
- Base Station
- Edge Computing Server
- Smart antenna
- Fiber network

End Products

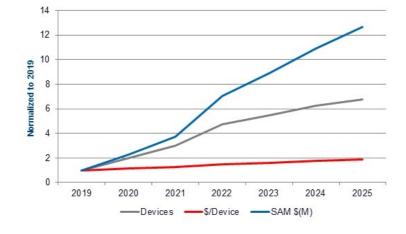
- Portables: Smartphone, Tablet
- Smart Car
- Consumer: VR/AR, Drone, IoTs
- Telecom: 5G CPEs
- Embedded/Industrial



5G - Dominated by small cell and data center

- 50% increase in small cells between 2018 and 2020

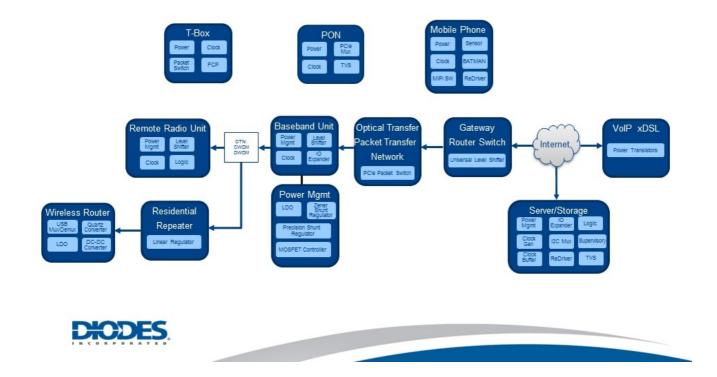




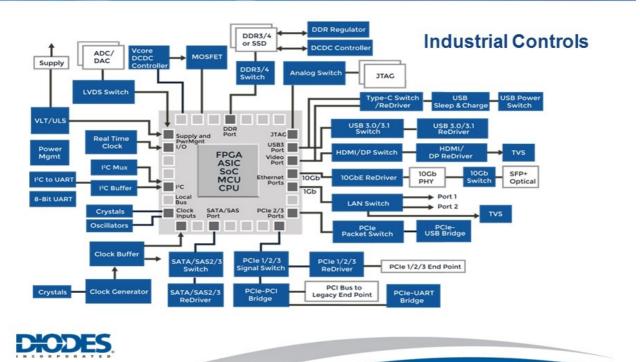
| Diodes Key Products | \$ / System |
|---------------------------------|-------------------|
| Precision Timing & Connectivity | \$5.00 ~ \$10.00 |
| Discrete | \$2.03 ~ \$2.50 |
| Analog | \$9.00 ~ \$11.28 |
| Total | \$16.03 ~ \$23.78 |



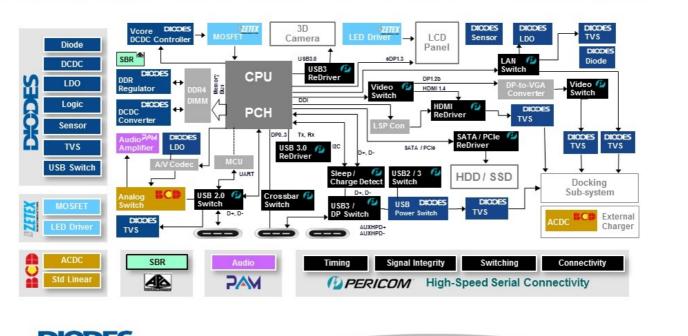




Solution Provider



Complete Platform Solutions: Notebooks



DICIDES

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Technology Focus

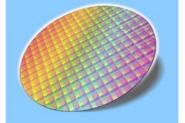
Products 20Gbps ReDrivers and Switches ■ Automotive Packet Switch for Telematics / ADAS ■ Complete USB Type-CTM signal Switching

- High speed clocking for cloud computing
- Ultra low power and low noise LDOs for loT
- Low Cj TVS for signal integrity
- Lowest rDS(ON) LDMOS for battery efficiency



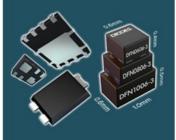
Wafer Fab

- High performance 8" MOSFET trench technology
- Advanced Epi bipolar transistor processes
- Proprietary rectifier technology
- Rugged automotive grade NMOS and PMOS



Assembly/Test

- Compact QFN and DFN
- Power density PowerDI
- Chip scale packaging and plating capability
- Extensive multi-chip package technology



Key Differentiator – Packaging Design



Focus: Miniaturization and Power Efficiency

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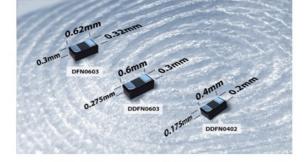
Miniaturization and Multi-Chip Packaging

Miniaturization DDFN0402 the smallest discrete semiconductor package

DES



Dual-Flat No-Lead (DFN) DDFN (Encapsulated CSP) Chip-Scale Package (CSP)



HS IntelliFET: ZXMS3001



Efficient Manufacturing + Superior Processes

Packaging

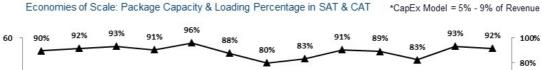
- Shanghai-based packaging with capacity over 34 billion units
- Chengdu facility has potential capacity 3X of Shanghai
- Additional facilities in Neuhaus, Germany and Chengdu, China



Wafer Fabs

- Two fabs in Shanghai (6" and 8"), one fab in Greenock, UK (8"), one discrete fab in Oldham, UK (6")
- Bipolar, BiCMOS, CMOS and BCD process
- Strong engineering capabilities







Third Quarter 2019 Financial Performance

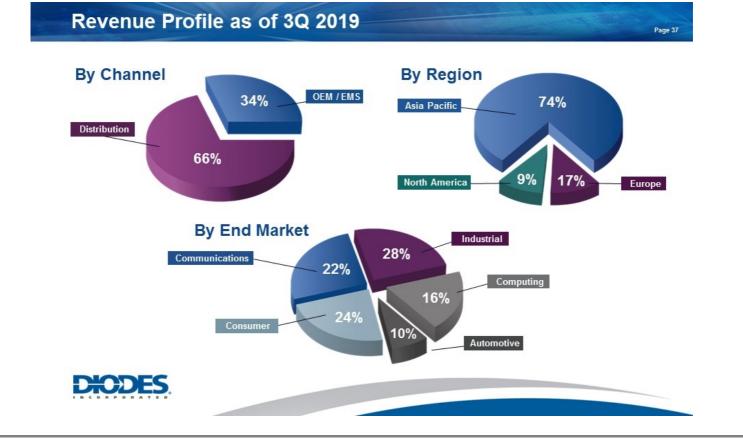
| In millions, except per share | 3Q18 | 2Q19 | 3Q19 | ΥοΥ |
|-------------------------------|---------|---------|---------|--------|
| Revenue | \$320.9 | \$322.0 | \$323.7 | 0.8% |
| Gross Profit (GAAP) | \$115.2 | \$122.0 | \$122.0 | 5.9% |
| Gross Profit Margin % (GAAP) | 35.9% | 37.9% | 37.7% | +180bp |
| Net Income (GAAP) | \$30.9 | \$36.3 | \$38.1 | |
| Net Income (non-GAAP) | \$34.5 | \$40.0 | \$41.9 | 22.0% |
| EPS (non-GAAP) | \$0.68 | \$0.77 | \$0.81 | 19.1% |
| Cash Flow from Operations | \$35.5 | \$40.6 | \$67.2 | |
| EBITDA (non-GAAP) | \$72.0 | \$77.1 | \$78.3 | 8.8% |



Balance Sheet

| In millions | Dec 31, 2017 | Dec 31, 2018 | Sept 30, 2019 |
|---|--------------|--------------|---------------|
| Cash | \$204 | \$241 | \$218.4 |
| Short-term Investments | \$5 | \$7.5 | \$7.9 |
| Inventory | \$217 | \$215 | \$231 |
| Current Assets | \$662 | \$735 | \$763 |
| Total Assets | \$1489 | \$1526 | \$1610 |
| Long-term Debt (including the current portion) | \$247 | \$213.8 | \$119.0 |
| Total Liabilities | \$615 | \$549 | \$533 |
| Total Equity | \$874 | \$977 | \$1077 |





Fourth Quarter 2019 Business Outlook

- Revenue to be approximately \$300 million, +/- 2.0%, which at the mid-point represents annual growth of 2.8 percent even in the overall weak market environment and continued outperformance of our served market
- GAAP gross margin to be 36.5%, +/- 1%
- Non-GAAP operating expenses, which are GAAP operating expenses adjusted for amortization of acquisition-related intangible assets, are expected to be approximately 22.0% of revenue, +/- 1%
- Interest expense to be approximately \$2.0 million, and income tax rate is expected to be 21.0%, +/- 3%
- Shares used to calculate diluted EPS approximately 52.5 million
- Purchase accounting adjustments of \$3.7 million, after tax, for Pericom and previous acquisition are not included in these non-GAAP estimates

*Guidance as provided on August 5, 2019



- Vision: Expand shareholder value
- Mission: Profitability growth to drive 20% operating profit
- Next Strategic Goal: \$1B gross profit
- Tactics:
 - Increased focus on high-margin Automotive, Industrial and Pericom products

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- Investment for technology leadership in target products, fab processes, and advanced packaging
- System solutions to drive business expansion



