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): August 08, 2023

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, Texas
(Address of Principal Executive Offices)

75024 (Zip Code)

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

(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: Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425) 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: **Trading** Title of each class Symbol(s) Name of each exchange on which registered Common Stock, Par Value \$0.66 2/3 DIOD The Nasdaq Stock Market LLC 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). 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. \square

Item 2.02 Results of Operations and Financial Condition.

On August 8, 2023, Diodes Incorporated (the "Company") issued a press release announcing its second quarter 2023 financial results. A copy of the press release is furnished as Exhibit 99.1.

In the press release, the Company utilizes financial measures and terms not calculated in accordance with generally accepted accounting principles in the United States ("GAAP") in order to provide investors with an alternative method for assessing the Company's operating results in a manner that enables investors to more thoroughly evaluate its current performance as compared to past performance. The Company also believes these non-GAAP measures provide investors with a more informed baseline for modeling the Company's future financial performance. Management uses these non-GAAP measures for the same purpose. The Company believes that investors should have access to the same set of tools that management uses in analyzing results. These non-GAAP measures should be considered in addition to results prepared in accordance with GAAP, but should not be considered a substitute for or superior to GAAP results and may differ from similar measures used by other companies. See Exhibit 99.1 for a description and reconciliation with GAAP of the non-GAAP measures used.

The information furnished in this Item 2.02, including the exhibit incorporated by reference, will not be treated as "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section. This information will not be deemed incorporated by reference into any filing under the Securities Act of 1933, as amended (the "Securities Act"), or into another filing under the Exchange Act, unless that filing expressly refers to specific information in this Report.

Item 7.01 Regulation FD Disclosure.

The press release furnished as Exhibit 99.1 also provides an update on the Company's business outlook, that is intended to be within the safe harbor provided by the Private Securities Litigation Reform Act of 1995 (the "Act") as comprising forward looking statements within the meaning of the Act.

The information furnished in this Item 7.01, including the exhibit incorporated by reference, will not be treated as "filed" for the purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities of that section. This information will not be deemed incorporated by reference into any filing under the Securities Act, or into another filing under the Exchange Act, unless that filing expressly refers to specific information in this Report.

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 August 8, 2023, are attached herewith as Exhibit 99.2 and Exhibit 99.3. Exhibit 99.2 provides an update focused on the Company's second quarter 2023 financial results and Exhibit 99.3 is used in the Company's investor relations presentations.

Forward-Looking Statements

Statements in this Current Report on Form 8-K (including in the documents attached as Exhibit 99.1, Exhibit 99.2 and Exhibit 99.3 contain 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 this Current Report on Form 8-K (including the documents attached as Exhibit 99.1, Exhibit 99.2 and Exhibit 99.3 should be regarded as "forward-looking statements" and Exhibit 99.1, Exhibit 99.2 and Exhibit 99.3 contain 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, except as required by applicable law.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Number Description

99.1 <u>Press release dated August 8, 2023.</u> 99.2 <u>Second Quarter 2023 Financial Results.</u>

99.3 <u>Corporate slides for investor relations presentation.</u>

104 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 thereunto duly authorized.

DIODES INCORPORATED

Date: August 8, 2023 By: /s/Brett R. Whitmire

Brett R. Whitmire Chief Financial Officer



Diodes Incorporated Reports Second Quarter Fiscal 2023 Financial Results

Record Automotive and Industrial Product Revenue Drives Record Gross Margin

Plano, Texas - August 8, 2023 -- Diodes Incorporated (Diodes) (Nasdaq: DIOD) today reported its financial results for the second quarter ended June 30, 2023.

Second Quarter Highlights

- Revenue was \$467.2 million, decreasing 6.8 percent from \$501.0 million in the second quarter 2022 and flat with \$467.2 million in the first quarter 2023;
- Automotive and Industrial revenue was a record 48 percent of total product revenue;
- GAAP gross profit was \$195.4 million, decreasing 5.4 percent from \$206.5 million in the second quarter 2022 and up 0.5 percent from \$194.5 million in the first quarter 2023;
- GAAP gross profit margin was a record 41.8 percent, an increase of 60 basis points from 41.2 percent in the second quarter 2022 and up 20 basis points compared to 41.6 percent in the first quarter 2023;
- GAAP net income was \$82.0 million, compared to \$80.2 million in the second quarter 2022 and \$71.2 million in the first quarter 2023;
- · Non-GAAP adjusted net income was \$73.3 million, compared to \$86.9 million in the second quarter 2022 and \$73.4 million in the first quarter 2023;
- GAAP EPS was \$1.77 per diluted share, compared to \$1.75 per diluted share in the second quarter 2022 and \$1.54 per diluted share in the first quarter 2023:
- Non-GAAP EPS was \$1.59 per diluted share, compared to \$1.90 per diluted share in the prior year quarter and \$1.59 per diluted share last quarter;
- Excluding \$6.0 million, net of tax, of non-cash share-based compensation expense, both GAAP and non-GAAP earnings per share would have increased by \$0.13 per diluted share;
- EBITDA increased to \$133.5 million, or 28.6 percent of revenue, from \$130.6 million, or 26.1 percent of revenue, in the second quarter 2022 and \$121.8 million, or 26.1 percent of revenue, in the first quarter 2023; and
- Achieved cash flow from operations of \$92.6 million and \$55.6 million of free cash flow, including \$37.0 of capital expenditures. Net cash flow was a negative \$1.2 million, including the pay-down of \$34.4 million of total debt.

Commenting on the results, Dr. Keh-Shew Lu, Chairman, President and Chief Executive Officer, stated, "Even though the recovery in the consumer, computing and communications markets was much slower than expected during the quarter, our achievement of record automotive and industrial product revenue enabled us to maintain revenue flat sequentially and in-line with our guidance, while also delivering record gross margin. This quarter was the sixth consecutive quarter gross margin was above our target model of 40%, and the sixth consecutive quarter automotive and industrial increased as a percentage of revenue.

"Looking forward, we have begun to see early indications of market improvement with inventory days decreasing in the second quarter coupled with an increase in worldwide POS revenue. Although we expect a further reduction in channel inventory into the third quarter, Diodes' ongoing strategy to improve sales and product mix, including growing revenue contribution from the automotive and industrial markets, positions us to continue achieving our long-term growth and margin targets."

Second Quarter 2023

Revenue for second quarter 2023 was \$467.2 million, decreasing 6.8 percent from \$501.0 million in the second quarter 2022 and flat with \$467.2 million in the first guarter 2023.

GAAP gross profit for the second quarter 2023 was \$195.4 million, or 41.8 percent of revenue, compared to \$206.5 million, or 41.2 percent of revenue, in the second quarter of 2022 and \$194.5 million, or 41.6 percent of revenue, in the first quarter 2023.

GAAP operating expenses for second quarter 2023 were \$105.8 million, or 22.7 percent of revenue, and on a non-GAAP basis were \$102.0 million, or 21.8 percent of revenue, which excludes \$3.8 million of amortization of acquisition-related intangible asset expenses. GAAP operating expenses in the second quarter 2022 were \$100.3 million, or 20.0 percent of revenue, and in the first quarter 2023 were \$108.0 million, or 23.1 percent of revenue.

Second quarter 2023 GAAP net income was \$82.0 million, or \$1.77 per diluted share, compared to GAAP net income in the second quarter 2022 of \$80.2 million, or \$1.75 per diluted share, and GAAP net income of \$71.2 million, or \$1.54 per diluted share, in the first quarter 2023.

Second quarter 2023 non-GAAP adjusted net income was \$73.3 million, or \$1.59 per diluted share, which excluded, net of tax, \$3.1 million of acquisition-related intangible asset costs, an \$11.7 million gain on an equity investment. This compares to non-GAAP adjusted net income of \$86.9 million, or \$1.90 per diluted share, in the second quarter 2022 and \$73.4 million, or \$1.59 per diluted share, in the first quarter 2023.

The following is an unaudited summary reconciliation of GAAP net income to non-GAAP adjusted net income and per share data, net of tax (in thousands, except per share data):

	Months Ended e 30, 2023
GAAP net income	\$ 82,020
GAAP diluted earnings per share	\$ 1.77
Adjustments to reconcile net income to non-GAAP net income:	
Amortization of acquisition-related intangible assets	3,091
Officer retirement	(46)
Non-cash market-to-market investment value adjustments	(11,732)
Non-GAAP net income	\$ 73,333
Non-GAAP diluted earnings per share	\$ 1.59

Note: Throughout this release, we refer to "net income attributable to common stockholders" as "net income."

(See the reconciliation tables of GAAP net income to non-GAAP adjusted net income near the end of this release for further details.)

Included in second quarter 2023 GAAP net income and non-GAAP adjusted net income was approximately \$6.0 million, net of tax, of non-cash share-based compensation expense. Excluding share-based compensation expense, both GAAP earnings per share ("EPS") and non-GAAP adjusted EPS would have increased by \$0.13 per diluted share for the second quarter 2023, \$0.14 for second quarter 2022 and \$0.17 for the first quarter 2023.

EBITDA (a non-GAAP measure), which represents earnings before net interest expense, income tax, depreciation and amortization, in second quarter 2023 was \$133.5 million, or 28.6 percent of revenue, increasing from \$130.6 million, or 26.1 percent of revenue, in second quarter 2022 and \$121.8 million, or 26.1 percent of revenue, in first quarter 2023. For a reconciliation of GAAP net income to EBITDA, see the table near the end of this release for further details.

For second quarter 2023, net cash provided by operating activities was \$96.2 million. Net cash flow was a negative \$1.2 million, which includes the pay-down of \$34.4 million of total debt. Free cash flow (a non-GAAP measure) was \$55.6 million, which includes \$37.0 million of capital expenditures.

Balance Sheet

As of June 30, 2023, the Company had approximately \$334 million in cash and cash equivalents, restricted cash, and short-term investments. Total debt (including long-term and short-term) amounted to approximately \$89 million and working capital was approximately \$747 million.

The results announced today are preliminary and unaudited, as they are subject to the Company finalizing its closing procedures and completion of the quarterly review by its independent registered public accounting firm. As such, these results are subject to revision until the Company files its Form 10-Q for the quarter ending June 30, 2023.

Business Outlook

Dr. Lu concluded, "For the third quarter of 2023, we expect revenue to be approximately \$425 million, plus or minus 3 percent, as we expect to continue reducing channel inventory due to the slower recovery in the consumer, computing and communications markets. GAAP gross margin is expected to decrease sequentially to 40.0 percent, plus or minus 1 percent., primarily due to the impact of our manufacturing service agreements but remains at our target model. Non-GAAP operating expenses, which are GAAP operating expenses adjusted for amortization of acquisition-related intangible assets, are expected to be approximately 23.0 percent of revenue, plus or minus 1 percent. We expect net interest expense to be approximately \$1.0 million. Our income tax rate is expected to be 20.0 percent, plus or minus 3 percent, and shares used to calculate diluted EPS for the third quarter are anticipated to be approximately 46.7 million."

Amortization of acquisition-related intangible assets of \$3.1 million, after tax, for previous acquisitions is not included in these non-GAAP estimates.

Conference Call

Diodes will host a conference call on Tuesday, August 8, 2023 at 4:00 p.m. Central Time (5:00 p.m. Eastern Time) to discuss its second quarter financial results. Investors and analysts may join the conference call by dialing **1-833-634-2590**, and international callers may join the teleconference by dialing **+1-412-317-6038**. A telephone replay of the call will be made available approximately two hours after the call and will remain available until August **15**, 2023 at midnight Central Time. The replay number is **1-877-344-7529** with a pass code of 9628513. International callers should dial **+1-412-317-0088** and enter the same pass code at the prompt.

Additionally, this conference call will be broadcast live over the Internet and can be accessed by all interested parties on the Investors' section of Diodes' website at https://investor.diodes.com. To listen to the live call, please go to the investors' section of Diodes' website and click on the conference call link at least 15 minutes prior to the start of the call to register, download and install any necessary audio software. For those unable to participate during the live broadcast, a replay will be available shortly after the call on Diodes' website for approximately 90 days.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, delivers high-quality semiconductor products to the world's leading companies in the automotive, industrial, computing, consumer electronics, and communications markets. We leverage our expanded product portfolio of discrete, analog, and mixed-signal products and leading-edge packaging technology to meet customers' needs. Our broad range of application-specific solutions and solutions-focused sales, coupled with worldwide operations of 32 sites, including engineering, testing, manufacturing, and customer service, enables us to be a premier provider for high-volume, high-growth markets. For more information visit www.diodes.com.

Safe Harbor Statement Under the Private Securities Litigation Reform Act of 1995: Any statements set forth above 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 statements include statements containing forward-looking words such as "expect," "anticipate," "aim," "estimate," and variations thereof, including without limitation statements, whether direct or implied, regarding expectations of that for the third quarter of 2023, we expect revenue to be approximately \$425 million plus or minus 3 percent; we expect GAAP gross margin to be 40.0 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 23.0 percent of revenue, plus or minus 1 percent; we expect non-GAAP net interest expense to be approximately \$1.0 million; we expect our income tax rate to be 20.0 percent, plus or minus 3 percent; shares used to calculate diluted EPS for the third quarter are anticipated to be approximately 46.7 million. Potential risks and uncertainties include, but are not limited to, such factors as: the risk that the COVID-19 pandemic may continue and have a material adverse effect on customer demand and staffing of our production, sales and administration facilities; 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 the cost, expense, and diversion of management attention associated with the LSC acquisition may be greater than we currently expect; the risk that we may not be able to maintain our current growth strategy or continue 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 operating costs, labor shortages, higher tax rates, and our joint venture prospects; 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 of 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 that the coronavirus outbreak or other similar epidemics may harm our domestic or international business operations to a greater extent than we currently anticipate; the risk of breaches of our information technology systems; and other information, including the "Risk Factors" detailed from time to time in Diodes' filings with the United States Securities and Exchange Commission.

The Diodes logo is a registered trademark of Diodes Incorporated in the United States and other countries.

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DIODES INCORPORATED AND SUBSIDIARIES CONSOLIDATED CONDENSED STATEMENTS OF OPERATIONS

(unaudited)

(in thousands, except per share data)

Three Months Ended June 30, 2023 Six Months Ended June 30, 2023

	74110 50, 2020			74110 00, 2020			
	 2023		2022		2023		2022
Net sales	\$ 467,152	\$	500,972	\$	934,393	\$	983,095
Cost of goods sold	271,776		294,446		544,563		579,872
Gross profit	 195,376		206,526		389,830		403,223
Operating expenses							
Selling, general and administrative	67,500		69,067		138,491		140,510
Research and development	34,611		30,762		67,843		59,439
Amortization of acquisition-related intangible assets	3,816		3,980		7,668		7,842
Other operating expense (income)	(118)		(3,521)		(166)		(3,864)
Total operating expense	 105,809		100,288		213,836		203,927
Income from operations	89,567		106,238		175,994		199,296
Other (expense) income							
Interest income	2,224		861		3,996		1,687
Interest expense	(2,189)		(1,590)		(4,321)		(2,704)
Foreign currency (loss)gain, net	(2,217)		1,819		(4,110)		3,540
Unrealized gain(loss) on investments	12,172		(7,764)		16,061		(13,312)
Other income	1,398		1,647		1,928		3,523
Total other income (expense)	 11,388		(5,027)		13,554		(7,266)
Income before income taxes and noncontrolling interest	100,955		101,211		189,548		192,030
Income tax provision	 17,224		18,461		33,840		35,107
Net income	83,731		82,750	<u>-</u>	155,708		156,923
Less net (income) attributable to noncontrolling interest	 (1,711)		(2,595)		(2,538)		(4,077)
Net income attributable to common stockholders	\$ 82,020	\$	80,155	\$	153,170	\$	152,846
Earnings per share attributable to common stockholders:							
Basic	\$ 1.79	\$	1.77	\$	3.35	\$	3.38
Diluted	\$ 1.77	\$	1.75	\$	3.31	\$	3.33
Number of shares used in earnings per share computation:							
Basic	 45,733		45,265		45,667		45,185
Diluted	46,243		45,841		46,263		45,913

Note: Throughout this release, we refer to "net income attributable to common stockholders" as "net income."

DIODES INCORPORATED AND SUBSIDIARIES

RECONCILIATION OF NET INCOME TO ADJUSTED NET INCOME

(in thousands, except per share data) (unaudited)

For the three months ended June 30, 2023:

	Operating Expenses	Other (Income) Expense	Income Tax Provision	Ne	t Income
Per-GAAP				\$	82,020
Diluted earnings per share (per-GAAP)				\$	1.77
Adjustments to reconcile net income to non-GAAP net income:					
Amortization of acquisition-related intangible assets	3,817		(726)		3,091
Officer retirement	(57)		11		(46)
Non-cash market-to-market investment value adjustments		(12,172)	440		(11,732)
Non-GAAP				\$	73,333
Diluted shares used in computing earnings per share					46,243
Non-GAAP diluted earnings per share				\$	1.59

Note: Included in GAAP and non-GAAP net income was approximately \$6.0 million, net of tax, non-cash share-based compensation expense. Excluding share-based compensation expense, both GAAP and non-GAAP diluted earnings per share would have increased by \$0.13 per share.

DIODES INCORPORATED AND SUBSIDIARIES CONSOLIDATED RECONCILIATION OF NET INCOME TO ADJUSTED NET INCOME – Cont.

(in thousands, except per share data) (unaudited)

For the three months ended June 30, 2022:

	Operating Expenses	Other Income (Expense)	Income Tax Provision	Net	t Income
Per-GAAP				\$	80,155
Diluted earnings per share (Per-GAAP)					1.75
Adjustments to reconcile net income to non-GAAP net income:					
Amortization of acquisition-related intangible assets	3,980		(729)		3,251
Acquisition-related costs	204		(44)		160
Insurance Recovery for Manufacturing Facility	(3,594)		719		(2,875)
Non-cash market-to-market investment value adjustments		7,764	(1,553)		6,211
Non-GAAP				\$	86,902
Diluted shares used in computing earnings per share					45,841
Non-GAAP diluted earnings per share				\$	1.90

Note: Included in GAAP and non-GAAP adjusted net income was approximately \$6.6 million, net of tax, non-cash share-based compensation expense. Excluding share-based compensation expense, both GAAP and non-GAAP adjusted diluted earnings per share would have increased by \$0.14 per share.

DIODES INCORPORATED AND SUBSIDIARIES CONSOLIDATED RECONCILIATION OF NET INCOME TO ADJUSTED NET INCOME – Cont. (in thousands, except per share data) (unaudited)

For the six months ended June 30, 2023:

	onths Ended e 30, 2023
GAAP net income	\$ 153,170
GAAP diluted earnings per share	\$ 3.31
Adjustments to reconcile net income to non-GAAP net income:	
Amortization of acquisition-related intangible assets	6,236
Officer retirement	2,230
Non-cash market-to-market investment value adjustments	(14,804)
Non-GAAP net income	\$ 146,832
Non-GAAP diluted earnings per share	\$ 3.17

Note: Included in GAAP and non-GAAP adjusted net income was approximately \$13.7 million, net of tax, non-cash share-based compensation expense. Excluding share-based compensation expense, both GAAP and non-GAAP adjusted diluted earnings per share would have improved by \$0.30 per share.

DIODES INCORPORATED AND SUBSIDIARIES CONSOLIDATED RECONCILIATION OF NET INCOME TO ADJUSTED NET INCOME – Cont. (in thousands, except per share data) (unaudited)

For the six months ended June 30, 2022:

	Operating Expenses	Other Income (Expense)	Income Tax Provision	Ne	et Income
Per-GAAP				\$	152,846
Diluted earnings per share (Per-GAAP)					3.33
Adjustments to reconcile net income to non-GAAP net income:					
Amortization of acquisition-related intangible assets	7,842		(1,435)		6,407
Acquisition-related costs	479		(101)		378
Insurance Recovery for Manufacturing Facility	(3,594)		719		(2,875)
Non-cash market-to-market investment value adjustments		13,312	(2,856)		10,456
Non-GAAP				\$	167,212
Diluted shares used in computing earnings per share					45,913
Non-GAAP diluted earnings per share				\$	3.64

Note: Included in GAAP and non-GAAP adjusted net income was approximately \$13.0 million, net of tax, non-cash share-based compensation expense. Excluding share-based compensation expense, both GAAP and non-GAAP adjusted diluted earnings per share would have improved by \$0.28 per share.

ADJUSTED NET INCOME AND ADJUSTED EARNINGS PER SHARE

The Company's financial statements present net income and earnings per share that are calculated using accounting principles generally accepted in the United States ("GAAP"). The Company's management makes adjustments to the GAAP measures that it feels are necessary to allow investors and other readers of the Company's financial releases to view the Company's operating results as viewed by the Company's management, board of directors and research analysts in the semiconductor industry. These non-GAAP measures are not prepared in accordance with, and should not be considered alternatives or necessarily superior to, GAAP financial data and may be different from non-GAAP measures used by other companies. Because non-GAAP financial measures are not standardized, it may not be possible to compare these financial measures with other companies' non-GAAP financial measures, even if they have similar names. The explanation of the adjustments made in the table above, are set forth below:

Detail of non-GAAP adjustments:

Amortization of acquisition-related intangible assets — The Company excluded this item, including amortization of developed technologies and customer relationships. The fair value of the acquisition-related intangible assets is amortized using straight-line methods which approximate the proportion of future cash flows estimated to be generated each period over the estimated useful life of the applicable assets. The Company believes that exclusion of this item is appropriate because a significant portion of the purchase price for its acquisitions was allocated to the intangible assets that have short lives and exclusion of the amortization expense allows comparisons of operating results that are consistent over time for both the Company's newly acquired and long-held businesses. In addition, the Company excluded this item because there is significant variability and unpredictability among companies with respect to this expense.

Acquisition related costs — The Company excluded expenses associated with previous acquisitions of that typically consist of advisory, legal and other professional and consulting fees. These costs were expensed as they were incurred and as services were received, and in which the corresponding tax adjustments were made for the non-deductible portions of these expenses. The Company believes the exclusion of the acquisition related costs provides investors with a more accurate reflection of costs likely to be incurred in the absence of an unusual event such as an acquisition and facilitates comparisons with the results of other periods that may not reflect such costs.

Officer retirement – The Company excluded costs related to the retirement of two executives. These costs represent cash payments and the accelerated vesting of previously issued stock awards. The Company feels it is appropriate to exclude these costs since they don't represent ongoing operating expenses and will present investors with a more accurate indication of our continuing operations.

Non-cash mark-to-market investment value adjustments — The Company excluded market to market adjustments on various equity related investments. The Company believes this is not reflective of the ongoing operations and exclusion of this provides investors an enhanced view of the Company's operating results.

<u>Insurance Recovery for Manufacturing Facility.</u> – The Company has recorded gains related to insurance recovery for a manufacturing facility in Asia. The Company believes the exclusion of the insurance recovery provides investors with a more accurate reflection of the continuing operations of the Company and facilitates comparisons with the results of other periods which may not reflect such gains.

CASH FLOW ITEMS

Free cash flow (FCF) (Non-GAAP)

FCF for the second quarter of 2023 is a non-GAAP financial measure, which is calculated by subtracting capital expenditures from cash flow from operations. For the second quarter of 2023, FCF was \$55.6 million, which represents the cash and cash equivalents that we are able to generate after taking into account cash outlays required to maintain or expand property, plant and equipment. FCF is important because it allows us to pursue opportunities to develop new products, make acquisitions and reduce debt.

CONSOLIDATED RECONCILIATION OF NET INCOME TO EBITDA

EBITDA represents earnings before net interest expense, income tax provision, depreciation and amortization. Management believes EBITDA is useful to investors because it is frequently used by securities analysts, investors and other interested parties, such as financial institutions in extending credit, in evaluating companies in our industry and provides further clarity on our profitability. In addition, management uses EBITDA, along with other GAAP and non-GAAP measures, in evaluating our operating performance compared to that of other companies in our industry. The calculation of EBITDA generally eliminates the effects of financing, operating in different income tax jurisdictions, and accounting effects of capital spending, including the impact of our asset base, which can differ depending on the book value of assets and the accounting methods used to compute depreciation and amortization expense. EBITDA is not a recognized measurement under GAAP, and when analyzing our operating performance, investors should use EBITDA in addition to, and not as an alternative for, income from operations and net income, each as determined in accordance with GAAP. Because not all companies use identical calculations, our presentation of EBITDA may not be comparable to similarly titled measures used by other companies. For example, our EBITDA takes into account all net interest expense, income tax provision, depreciation and amortization without taking into account any amounts attributable to noncontrolling interest. Furthermore, EBITDA is not intended to be a measure of free cash flow for management's discretionary use, as it does not consider certain cash requirements such as tax and debt service payments.

The following table provides a reconciliation of net income to EBITDA (in thousands, unaudited):

	Three Months Ended June 30, 2023			Six Months Ended June 30, 2023			
	 2023		2022		2023		2022
Net income (per-GAAP)	\$ 82,020	\$	80,155	\$	153,170	\$	152,846
Plus:							
Interest expense (income), net	(35)		729		325		1,017
Income tax provision	17,224		18,461		33,840		35,107
Depreciation and amortization	34,243		31,301		67,896		59,895
EBITDA (non-GAAP)	\$ 133,452	\$	130,646	\$	255,231	\$	248,865

DIODES INCORPORATED AND SUBSIDIARIES CONSOLIDATED CONDENSED BALANCE SHEETS (in thousands)

	June 30, 2023		December 31, 2022	
	- (u	naudited)	-	(audited)
Assets	·			
Current assets:				
Cash and cash equivalents	\$	321,616	\$	336,732
Restricted Cash		3,120		4,367
Short-term investments		9,042		7,059
Accounts receivable, net of allowances of \$5,634 and \$5,852 at				
June 30, 2023 and December 31, 2022, respectively		393,132		369,233
Inventories		325,733		360,281
Prepaid expenses and other		107,746		83,999
Total current assets		1,160,389		1,161,671
Property, plant and equipment, net		748,115		736,730
Deferred income tax		35,354		35,308
Goodwill		146,138		144,757
Intangible assets, net		71,496		79,137
Other long-term assets		179,579		130,709
Total assets	\$	2,341,071	\$	2,288,312
Liabilities				
Current liabilities:				
Line of credit	\$	33,729	\$	36,280
Accounts payable		152,192		160,442
Accrued liabilities		198,882		214,433
Income tax payable		27,004		19,682
Current portion of long-term debt		1,149		1,693
Total current liabilities		412,956		432,530
Long-term debt, net of current portion		54,575		147,470
Deferred tax liabilities		13,550		12,903
Unrecognized tax benefits		31,594		31,594
Other long-term liabilities		97,818		80,896
Total liabilities		610,493		705,393
Total naturates		010,170		700,070
Commitments and contingencies				
Committee and Contingences				
Stockholders' equity				
Preferred stock - par value \$1.00 per share; 1,000,000 shares authorized; no shares issued or outstanding		_		_
Common stock - par value \$0.66 2/3 per share; 70,000,000 shares authorized; 45,748,940 and 45,469,722, issued and outstanding at				
June 30, 2023 and December 31, 2022, respectively		36,690		36,503
Additional paid-in capital		501,302		494,773
Retained earnings		1,601,262		1,448,092
Treasury stock, at cost, 9,283,481 shares held at June 30, 2023 and 9,281,581 shares held at December 31, 2022		(337,670)		(337,490)
Accumulated other comprehensive loss		(139,104)		(128,233)
Total stockholders' equity		1,662,480		1,513,645
Noncontrolling interest		68,098		69,274
Total equity		1,730,578		1,582,919
	\$	2,341,071	\$	2,288,312
Total liabilities and stockholders' equity	*	2,0 .1,0, 1	*	2,200,012





August 8, 2023



Safe Harbor Statement

Safe Harbor Statement Under the Private Securities Litigation Reform Act of 1995: Any statements set forth above 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 statements include statements containing forward-looking words such as "expect," "anticipate," "aim," "estimate," and variations thereof, including without limitation statements, whether direct or implied, regarding expectations of that for the third quarter of 2023, we expect revenue to be approximately \$425 million plus or minus 3 percent; we expect GAAP gross margin to be 40.0 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 23.0 percent of revenue, plus or minus 1 percent; we expect non-GAAP net interest expense to be approximately \$1.0 million; we expect our income tax rate to be 20.0 percent, plus or minus 3 percent; shares used to calculate diluted EPS for the third quarter are anticipated to be approximately 46.7 million. Potential risks and uncertainties include, but are not limited to, such factors as: the risk that the COVID-19 pandemic may continue and have a material adverse effect on customer demand and staffing of our production, sales and administration facilities; 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 the cost, expense, and diversion of management attention associated with the LSC acquisition may be greater than we currently expect; the risk that we may not be able to maintain our current growth strategy or continue 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 operating costs, labor shortages, higher tax rates, and our joint venture prospects; 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 of 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 that the coronavirus outbreak or other similar epidemics may harm our domestic or international business operations to a greater extent than we currently anticipate; the risk of breaches of our information technology systems; and other information, including the "Risk Factors" detailed from time to time in Diodes' filings with the United States Securities and Exchange Commission.

This presentation also contains non-GAAP measures. See the Company's press release on August 8, 2023 titled, "Diodes Incorporated Reports Second Quarter Fiscal 2023 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.



ANALOG LOGIC MIXED-SIGNAL

About Diodes Incorporated

Diodes delivers high-quality (analog, discrete, and mixed signal) semiconductor products to the world's leading companies in the automotive, industrial, computing, consumer electronics, and communications markets





















Vision: Profitability Growth to Maximize Shareholder Value

Our Core Values: Integrity, Commitment, Innovation



DISCRETE ANALOG LOGIC MIXED-SIGNAL

On-Track to Achieve Longer Term Corporate Objectives

■ Goal 1: \$1B Market Cap 🕢

■ Goal 2: \$1B Annual Revenue

Goal 3: \$1B Gross Profit

Goal 4: \$1B Profit Before Tax

2025 Target: \$1B Gross profit

Gross Margin: 40% \$2.5B Revenue:



\$1B Market Cap - 2010



Targeted Market Segment Distribution Goal

~40% of revenue

(48% for Q2 2023)

Automotive

 Connected driving, comfort/style/safety, electrification/powertrain

Industrial

Embedded systems and precision controls, and IIoT

Consumer

■ IoT: wearables, home automation, smart infrastructure

Communications

Smart phones, 5G networks, advanced protocols, and charging solutions

Computing

Cloud computing: server, storage, data centers



(52% for Q2 2023)





Key Growth Areas

Automotive and Industrial are Driving Growth

- Automotive 31% CAGR (2013 2022)
 - Focused on connected driving, comfort, style, safety, and electrification
 - Released 110 new automotive-compliant products (including SiC MOSFETs) in 2Q'23
 - Increased dollar content per car to \$140



- Focused on embedded systems, networked systems, automation, motor controls, sensors, power management, and IIoT
- Building momentum for SiC Schottky diodes and MOSFETs
- Expanding content in security, medical, green energy generation and energy storage systems









Revenue

\$467.2M

Flat Q-Q

GAAP Gross Profit

\$195.4M

+ 0.5 % Q-Q

GAAP Gross Margin

41.8%

+ 20 bps Q-Q

Non-GAAP EPS

\$1.59

Flat Q-Q

Non-GAAP Net Income

\$73.3M

Flat Q-Q

EBITDA

\$133.5M

28.6% of Revenue

Cash Flow from Ops

\$92.6M

19.8% of Revenue

Strong Balance Sheet

\$334M/\$89M

Cash/Debt



DISCRETE ANALOG LOGIC MIXED-SIGNA

2QFY23 Highlights



Gross margin reached record 41.8% in 2Q'23, an increase of 60bps from 2Q'22



2Q'23 represented sixth consecutive quarter of above 40% (our target model) gross margin



Automotive revenue reached record 19% of product revenue



Achieved 29% of product revenue in the Industrial market

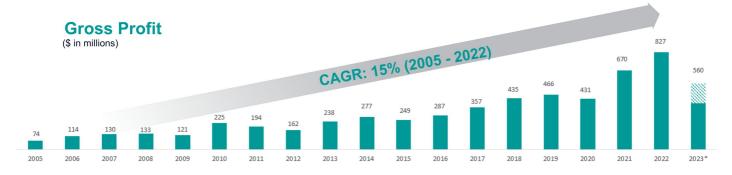


Automotive and Industrial totaled 48% of product revenue, exceeding 2025 target of 40%



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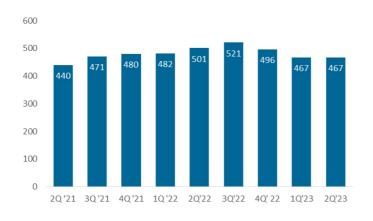


DISCRETE ANALOG LOGIC MIXED-SIGNAL

^{*} Revenue/Gross Profit for 2023 are based on first half results and Q3 guidance provided on August 8, 2023

Quarterly Revenue (\$ Millions)

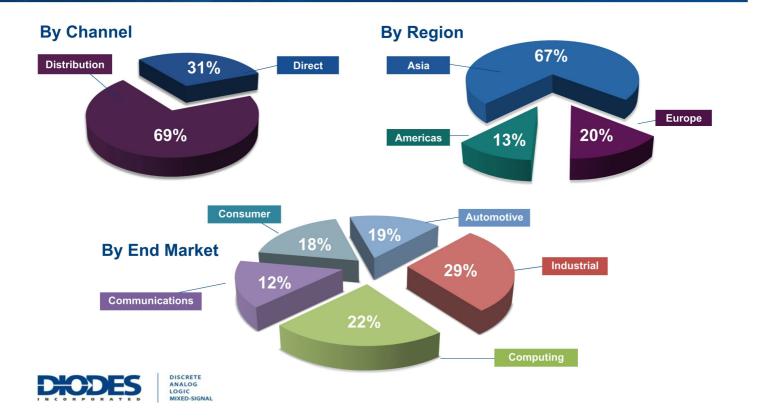
Quarterly Gross Profit (\$ Millions)







ANALOG LOGIC MIXED-SIGNAL



Income Statement – Second Quarter 2023

(\$ in millions, except per share amounts)	2Q22	1Q23	2Q23
Net sales	501.0	467.2	467.2
Gross profit (GAAP)	206.5	194.5	195.4
Gross profit margin % (GAAP)	41.2%	41.6%	41.8%
Net income (GAAP)	80.2	71.2	82
Net income (non-GAAP)	86.9	73.4	73.3
Diluted EPS (non-GAAP)	1.90	1.59	1.59
Cash flow from operations	85.0	99.8	92.6
EBITDA (non-GAAP)	130.4	121.8	133.5



(\$ in millions)	Dec 31, 2021	Dec 31, 2022	June 30, 2023
Cash*	373	348	334
Inventory	349	360	326
Current Assets	1,188	1,162	1,160
Total Assets	2,194	2,288	2,341
Total Debt	301	185	89
Total Liabilities	892	705	610
Total Equity	1,303	1,583	1,731

^{*} Cash, Restricted Cash and Short-term investments



- Revenue to be ~\$425 million, +/- 3.0%
- GAAP gross margin of 40%, +/- 1%
- Non-GAAP operating expenses 23.0% of revenue, +/- 1%, which are GAAP operating expenses adjusted for amortization of acquisition-related intangible assets
- Net Interest expense of ~\$1.0 million
- Income tax rate to be 20%, +/- 3%

- Shares used to calculate diluted EPS approximately 46.7 million
- Amortization of acquisitions-related intangible assets of \$3.1 million, after tax, for previous acquisitions is not included in these non-GAAP estimates



*Guidance as provided on August 8 2023

Investment Summary

- Vision: Expand shareholder value
- Mission: Profitability growth to drive 20%+ operating profit
- Next Strategic Goal: \$1B gross profit
- Tactics:
 - Total system solutions sales approach and content expansion driving growth
 - Increased focus on high-margin Automotive, Industrial, analog, and power discrete products
 - Investment for technology leadership in target products, fab processes, and advanced packaging





Reconciliation of Net Income to Adjusted Net Income

For the three months ended June 30, 2023:

(in thousands, except per share data)
(unaudited)

		Other			
	Operating	(Income)	Income Tax		
	Expenses	Expense	Provision	Ne	t Income
Per-GAAP				\$	82,020
Diluted comings and have (see CAAD)					4 77
Diluted earnings per share (per-GAAP)				3	1.77
Adjustments to reconcile net income to non-GAAP net income	:				
Amortization of acquisition-related intangible assets	3,817		(726)		3,091
Officer retirement	(57)		11		(46)
Non-cash market-to-market investment value adjust	monts	(12,172)	440		(11,732)
Non-cash market-to-market investment value aujusti	illelits	(12,172)	440		(11,732)
Non-GAAP				\$	73,333
Diluted shares used in computing earnings per share					46,243
					4 =0
Non-GAAP diluted earnings per share				\$	1.59

Note: Included in GAAP and non-GAAP net income was approximately \$6.0 million, net of tax, non-cash share-based compensation expense. Excluding share-based compensation expense, both GAAP and non-GAAP diluted earnings per share would have increased by \$0.13 per share.



GAAP to Non-GAAP Reconciliation

For the three months ended June 30, 2022:

(in thousands, except per share data)

(unaudited)

	Other			
Operating	Income	Income Tax		
Expenses	(Expense)	Provision	Net	Income
			\$	80,155
				1.75
2 000		(720)		3,251
3,380		(729)		3,231
204		(44)		160
		(,		
(3,594)		719		(2,875)
s	7,764	(1,553)		6,211
			\$	86,902
			_	45,841
			Ś	1.90
	3,980 204 (3,594)	Operating Expenses Income (Expense) 3,980 204 (3,594)	Operating Expenses Income (Expense) Provision 3,980 (729) 204 (44) (3,594) 719	Operating Income Income Tax Provision Net S

Note: Included in GAAP and non-GAAP adjusted net income was approximately \$6.6 million, net of tax, non-cash share-based compensation expense. Excluding share-based compensation expense, both GAAP and non-GAAP adjusted diluted earnings per share would have increased by \$0.14 per share.



DISCRETE ANALOG LOGIC





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Dr. Keh-Shew Lu

Chairman, President and CEO

Experience:

- President & CEO, Diodes Incorporated Since 2005
- Texas Instruments 27 years
 - Senior Vice President of TI Worldwide Analog and Logic
 - President of Texas Instruments Asia

Education:

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





Company Representative

Gurmeet Dhaliwal

Company spokesperson Director, Investor Relations

Experience:

- Head of Corporate Marketing, Diodes Incorporated, Milpitas, CA
- Head of Corporate Marketing, Pericom, Milpitas, CA
- Vice President, Marketing, CA Technologies (Broadcom), Redwood City, CA
- Director, Global Marketing Strategy, EMC, Pleasanton, CA
- Director, Marketing, Zarlink Semiconductor (Microchip), San Jose, CA
- Marketing Management positions at Cisco and National Semiconductor, CA

Education:

- MBA, Marketing/Entrepreneurship, Saint Mary's College of California
- BS in Electrical and Computer Engineering, UC Santa Barbara



About Diodes Incorporated

Diodes delivers high-quality (analog, discrete, and mixed signal) semiconductor products to the world's leading companies in the automotive, industrial, computing, consumer electronics, and communications markets





















Vision: Profitability Growth to Maximize Shareholder Value

Our Core Values: Integrity, Commitment, Innovation



DISCRETE ANALOG LOGIC MIXED-SIGNAL

Company Overview

Global Operations and World-class Manufacturing & Packaging

- NASDAQ: DIOD; Founded in 1959
- Headquartered in Plano, TX; 32 locations globally
- Manufacturing in US, UK, Germany, China, and Taiwan
- ISO 9001:2015 Certified / IATF 16949:2016 Certified
- ISO 14001:2015 Certified
- Key acquisitions:
 - onsemi SPFAB June 2022
 - Lite-On Semiconductor Nov. 2020
 - TI Greenock fab (GFAB) April 2019
 - Pericom Semiconductor Nov. 2015
 - BCD Semiconductor March 2013
 - Power Analog Microelectronics (PAM) Oct. 2012
 - Zetex June 2008
 - Advanced Power Devices Nov. 2006
 - Anachip Corporation Taiwan Jan. 2006
- 31 consecutive years of profitability





Global Organization





Our Sustainability Commitment

We view sustainability as a competitive advantage and have adopted a sustainability-oriented approach to assess and address related risks that may influence our operational activities, business results, and financial performance.



- Key focus areas regularly reviewed by our Board of Directors
- Instituted a cross-functional Sustainability Steering Team to address the sustainability related risks and opportunities
- The Sustainability Steering Team provides periodic updates to the Board of Directors



Please refer to Governance and Oversight for additional details

On-Track to Achieve Longer Term Corporate Objectives

■ Goal 1: \$1B Market Cap 🕢



■ Goal 2: \$1B Annual Revenue



Goal 3: \$1B Gross Profit

Goal 4: \$1B Profit Before Tax

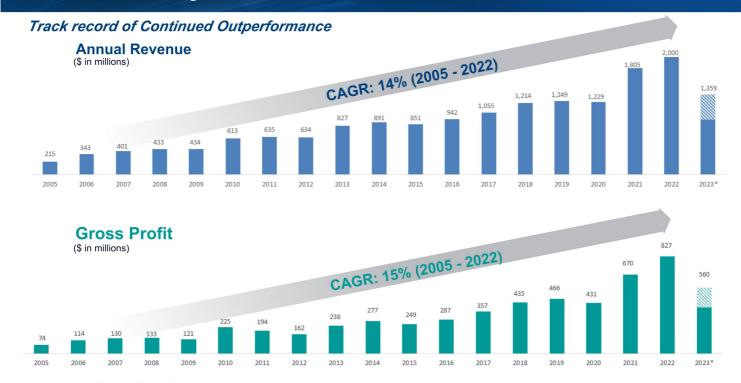
2025 Target: \$1B Gross profit

Gross Margin: 40% \$2.5B Revenue:











DISCRETE ANALOG LOGIC MIXED-SIGNAL

^{*} Revenue/Gross Profit for 2023 are based on first half results and Q3 guidance provided on August 8, 2023

Targeted Market Segment Distribution Goal

~40% of revenue

(48% for Q2 2023)

Automotive

 Connected driving, comfort/style/safety, electrification/powertrain

Industrial

Embedded systems and precision controls, and IIoT

Consumer

■ IoT: wearables, home automation, smart infrastructure

Communications

 Smart phones, 5G networks, advanced protocols, and charging solutions

Computing

Cloud computing: server, storage, data centers



(52% for Q2 2023)





Key Growth Areas

Automotive and Industrial are Driving Growth

- Automotive 31% CAGR (2013 2022)
 - Focused on connected driving, comfort, style, safety, and electrification
 - Released 110 new automotive-compliant products (including SiC MOSFETs) in 2Q'23
 - Increased dollar content per car to \$140



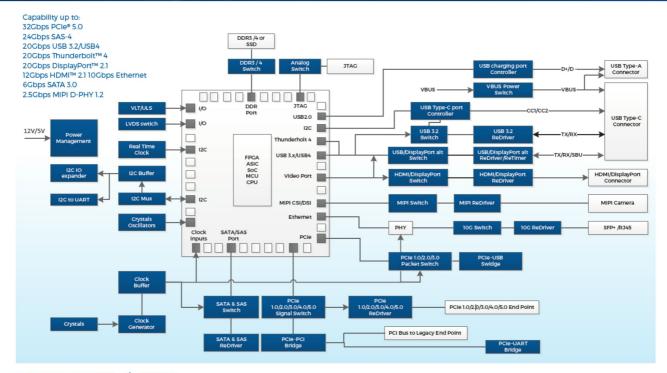
- Focused on embedded systems, networked systems, automation, motor controls, sensors, power management, and IIoT
- Building momentum for SiC Schottky diodes and MOSFETs
- Expanding content in security, medical, green energy generation and energy storage systems







Total Solutions Provider





DISCRETE ANALOG LOGIC MIXED-SIGNAL

Example: Embedded System Applications

Automotive Applications Driving Growth

Focus Applications:

Connected Driving

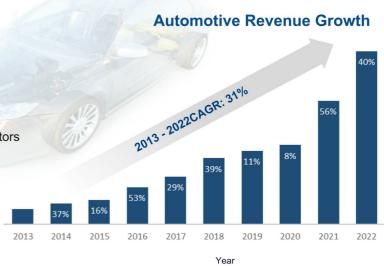
- ADAS (Advanced Driver Assistance Systems)
- Telematics
- Infotainment Systems
- Smart cockpit, Wireless charger

Comfort, Style, and Safety

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

Electrification/Powertrain

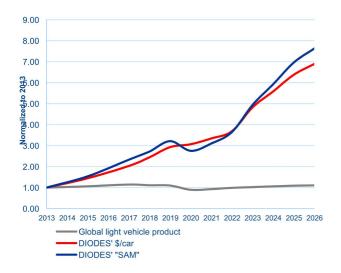
- Conventional Powertrain → Hybrid → Electrification
- Power Module Inverter for EV motor
- Battery management
 - Move to 48V battery

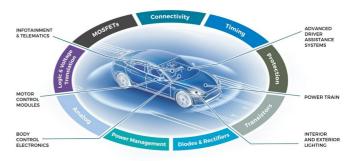




DISCRETE ANALOG LOGIC MIXED-SIGNA

Automotive Opportunity





Automotive Potential Revenue	\$ / Car
Automotive Motor Control	\$45.50
Connected Driving (Infotainment, Telematics & ADAS)	\$60.50
Powertrain, Electrification & Body Control Electronics	\$19.70
Lighting – Moving to LED	\$14.30
Total	\$140.00



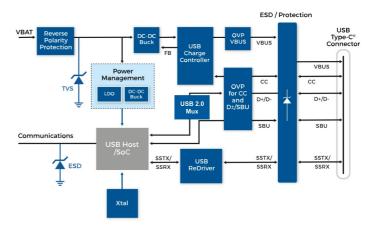
Automotive Compliant USB Charging



Diodes' Key Products	\$ / per car
Power Management	\$5.30
MOS/BJT	\$1.00
Diodes and Rectifiers	\$0.50
Timing and Connectivity	\$2.80
Total	\$9.60



DISCRETE ANALOG LOGIC

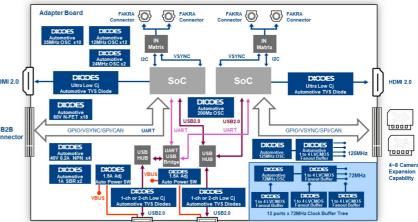


- USB charging is a high growth application with approximately 2 to 8 ports per vehicle
- Diodes provides a system solution for USB charging including Port Controller, USB Muxes, Signal Switches, ReDrivers, Xtals, Power Management, and Protection.
- Automotive Compliant* product portfolio expansion is expanding the SAM further

^{*} AEC qualified, manufactured in IATF 16949 certified sites supporting PPAP documents (if applicable).



Diodes' Key Products	\$ / Box
Analog	>\$1.20
Power Management	>\$0.70
MOS/BJT	>\$3.50
Diodes and Rectifiers	>\$5.00
Timing and Connectivity	\$14.00
Total	\$24.40



- Advanced Clock Gen, Clock Buffer, Crystal Oscillator, USB Power Switch, and Protection solutions for mission-critical need
- Automotive Compliant* Products



^{*} AEC qualified, manufactured in IATF 16949 certified sites supporting PPAP documents (if applicable).

Industrial Content Expansion

- Increasing IC content in embedded systems
- Switching and signal path for networked systems and automation
- Signal conditioning and timing for precision controls
- Industrial / motor controls, sensors, and power management for smart meters
- Green power, Energy storage







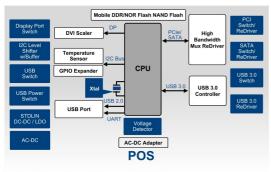
DISCRETE ANALOG LOGIC MIXED-SIGNAL

IoT – Machine to Machine (M2M)

- M2M Dominated by short range technology
 - 73% are short range, mostly Wi-Fi
- 2030: connections @ 29,400 million

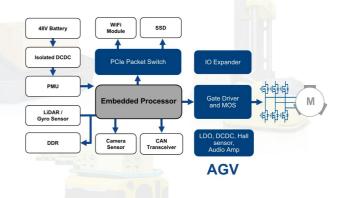
M2M – By Application

- IoT and M2M Modems
- POS, Routers, Edge Server
- On-Premise Edge Gateway
- AGV (Automated Guided Vehicle)
- AMR (Autonomous Mobile Robots)
- UAV (Unmanned Aerial Vehicle)





DISCRETE ANALOG LOGIC MIXED-SIGNAL



Growth Opportunities:

- Power, Sensor, DC-DC
- Gate Driver, BJT, MOSFET
- XTAL and clock
- Packet switch, ReDriver, IO Expander, MIPI, and USB charging

Diodes' Key Products	\$ / AGV		
Discrete	\$3.50		
Analog & Power Mgmt.	\$2.20		
Timing and Connectivity	\$18.00		
Total	\$23.70		

Cloud Computing Accelerating Enterprise Market

- ReDriver support for PCle or USB connectivity
- Wide range of signal protocols: PCle, CXL, SAS, SATA, USB
- MUX products for high capacity solid state storage
- Crystal oscillators for increasing clocking speeds
- LDOs, DCDC, SBR, and TVS for power management and protection



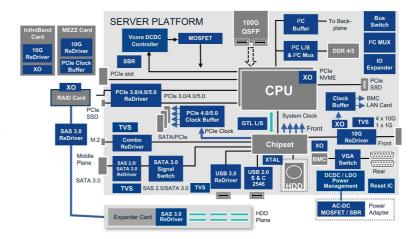


Computing Platform: Server/Storage Solution

Server Platform Solution

- Almost all of Server vendors are Diodes' existing customers
- Diodes' products are well positioned in this segment
 - Connectivity, Signal Integrity, Timing, Standard Linear, Power Management, Power Switch, Level shifter, Protection or HV MOSFET / SBR devices

Diodes' Key Products	\$ / Server		
Analog	3.80		
Discrete	3.60		
Timing and Connectivity	33.00		
Total	\$40.40		







ANALOG LOGIC MIXED-SIGNAL WW server market is expected to grow during 2023 – 2027 with CAGR of 7.7%

Consumer: IoT Driving Power & Connectivity Requirements

Smart







Wearables











Retail

II Enterprise

Security & Surveillance

Diodes' Key Products	\$ / Box
Analog	>\$0.20
Power Management	>\$1.30
MOS/BJT	>\$10.00
Diodes and Rectifiers	>\$5.00
Timing and Connectivity	\$3.50
Total	\$20.00



DISCRETE ANALOG LOGIC MIXED-SIGNAL

IoT Segment: Smart Home

Smart Home

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

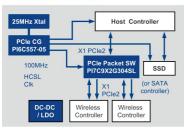
Growth Opportunities

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

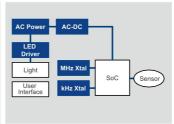


Diodes' Key Products	\$ / Box
Analog	\$0.55 ~ \$0.80
Power Management	\$1.80
MOS/BJT	\$1.10
Diodes and Rectifiers	\$0.50
Timing and Connectivity	\$3.50
Total	\$7.70

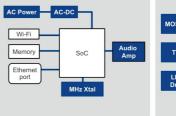
Smart Home Gateway



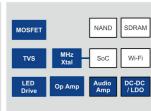
Smart Lighting



Smart Speaker



Digital Assistant





DISCRETE ANALOG LOGIC MIXED-SIGNAL

Focus Applications:

Cloud Computing

Al / 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, IoT
- Telecom: 5G CPEs
- Embedded/Industrial





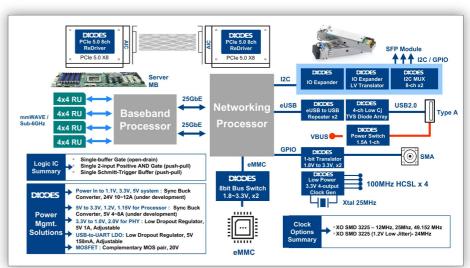






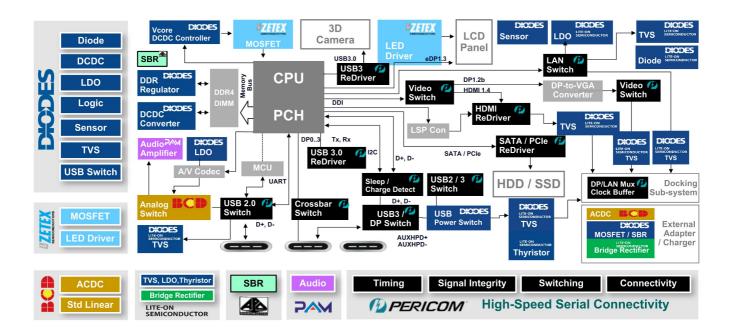
- Advanced Solution in Signal Integrity, Signal/Bus/Power Switches and IO Expanders for diversified networking applications
- Global Logistics provide cost-competitive solution with industry standard pin-outs and flexible package options

Diodes' Key Products	\$ / Box
Analog	>\$0.60
Power Management	\$0.90
MOS/BJT	>\$0.50
Timing and Connectivity	\$11.00
Total	\$13.00





Complete Platform Solution: Notebook





DISCRETE ANALOG LOGIC MIXED-SIGNAL

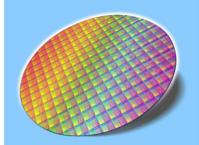
Technology Focus



- 32 Gbps ReDrivers and Switches
- Automotive Packet Switch for Telematics / ADAS
- Complete USB Type-C Solution
- Low jitter timing solution 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
- SiC Merged PiN Schottky Diodes and SiC MOSFET for industrial and automotive applications

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





Efficient Manufacturing + Superior Processes

Wafer Fabs

US: South Portland, Maine

China: Shanghai and Wuxi

Taiwan: Hsinchu and Keelung

UK: Greenock and Oldham

Bipolar, BiCMOS, CMOS and BCD process

Global footprint with strong engineering capabilities





Assembly and Test

China: Shanghai, Chengdu, and Wuxi

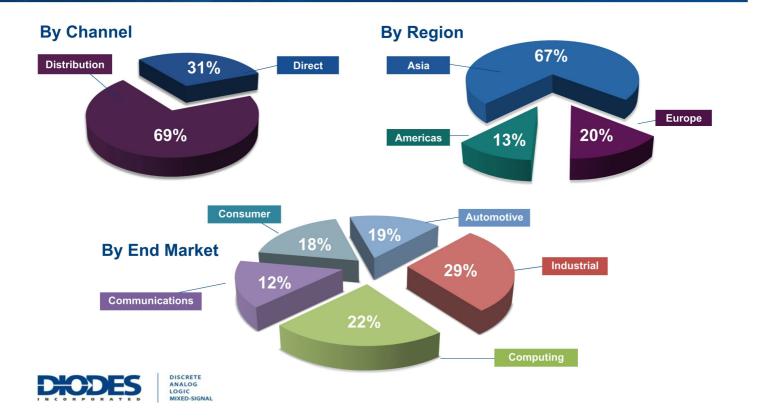
Taiwan: JhongliGermany: Neuhaus











Income Statement – Second Quarter 2023

(\$ in millions, except per share amounts)	2Q22	1Q23	2Q23
Net sales	501.0	467.2	467.2
Gross profit (GAAP)	206.5	194.5	195.4
Gross profit margin % (GAAP)	41.2%	41.6%	41.8%
Net income (GAAP)	80.2	71.2	82
Net income (non-GAAP)	86.9	73.4	73.3
Diluted EPS (non-GAAP)	1.90	1.59	1.59
Cash flow from operations	85.0	99.8	92.6
EBITDA (non-GAAP)	130.4	121.8	133.5



(\$ in millions)	Dec 31, 2021	Dec 31, 2022	June 30, 2023
Cash*	373	348	334
Inventory	349	360	326
Current Assets	1,188	1,162	1,160
Total Assets	2,194	2,288	2,341
Total Debt	301	185	89
Total Liabilities	892	705	610
Total Equity	1,303	1,583	1,731

^{*} Cash, Restricted Cash and Short-term investments



- Revenue to be ~\$425 million, +/- 3.0%
- GAAP gross margin of 40%, +/- 1%
- Non-GAAP operating expenses 23.0% of revenue, +/- 1%, which are GAAP operating expenses adjusted for amortization of acquisition-related intangible assets
- Net Interest expense of ~\$1.0 million
- Income tax rate to be 20%, +/- 3%

- Shares used to calculate diluted EPS approximately 46.7 million
- Amortization of acquisitions-related intangible assets of \$3.1 million, after tax, for previous acquisitions is not included in these non-GAAP estimates



*Guidance as provided on August 8 2023

Investment Summary

- Vision: Expand shareholder value
- Mission: Profitability growth to drive 20%+ operating profit
- Next Strategic Goal: \$1B gross profit
- Tactics:
 - Total system solutions sales approach and content expansion driving growth
 - Increased focus on high-margin Automotive, Industrial, analog, and power discrete products
 - Investment for technology leadership in target products, fab processes, and advanced packaging





www.diodes.con