Investor Relations Presentation

Plano, TX

May 2021

www.diodes.com

Safe Harbor Statement

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 second quarter 2021 business outlook as of May 6, 2021, which include the following: expect revenue to be approximately $434 million, plus or minus 3.0 percent; expect GAAP gross margin to be 35.6 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 20.5 percent of revenue, plus or minus 1 percent; expect non-GAAP net interest expense to be approximately $1.6 million; expect tax rate to be 19 percent, plus or minus 3 percent; shares used to calculate diluted EPS for the first quarter are anticipated to be approximately 45.7 million; purchase accounting adjustments for Pericom and previous acquisitions of $3.3 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 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 Lite-On Semiconductor Corp. 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 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 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 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 May 6, 2021 titled, "Diodes Incorporated Reports First Quarter 2021 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.

Management Representative

Dr. Keh-Shew Lu

Chairman, President and CEO

Experience:

- Texas Instruments 27 years
  - Senior Vice President of TI Worldwide Analog and Logic
  - President of Texas Instruments – Asia

Education:

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

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Company Representative

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

DIODES INCORPORATED

About Diodes Incorporated

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

Nasdaq **DIOD** Stock Symbol	**62** Years in business	**29** Consecutive years of profitability	**31** Number of locations worldwide	**~9300** Number of employees
1.2Bn Revenue in 2020	**43Bn** Number of units shipped in 2020	**>25K** Number of products	**>50K** Number of customers	**>50** Number of distributors

Vision: Profitability Growth to Maximize Shareholder Value

Our Core Values: Integrity, Commitment, Innovation

DIODES INCORPORATED

Global Operations and World-class Manufacturing & Packaging

- NASDAQ: DIOD; Founded in 1959
- Headquartered in Plano, TX; 31 locations globally
- Manufacturing in UK, Germany, China, and Taiwan
- ISO 9001:2015 Certified / IATF 16949:2016 Certified
- ISO 14001:2015 Certified
- Key acquisitions:
  - Anachip Corporation Taiwan - Jan. 2006
  - Advanced Power Devices - Nov. 2006
  - Zetex - June 2008
  - Power Analog Microelectronics (PAM) - Oct. 2012
  - BCD Semiconductor - March 2013
  - Pericom Semiconductor - Nov. 2015
  - TI Greenock fab - April 2019
  - Lite-On Semiconductor - Nov 2020
- Over 9,300 employees worldwide
- 29 consecutive years of profitability

Global Organization

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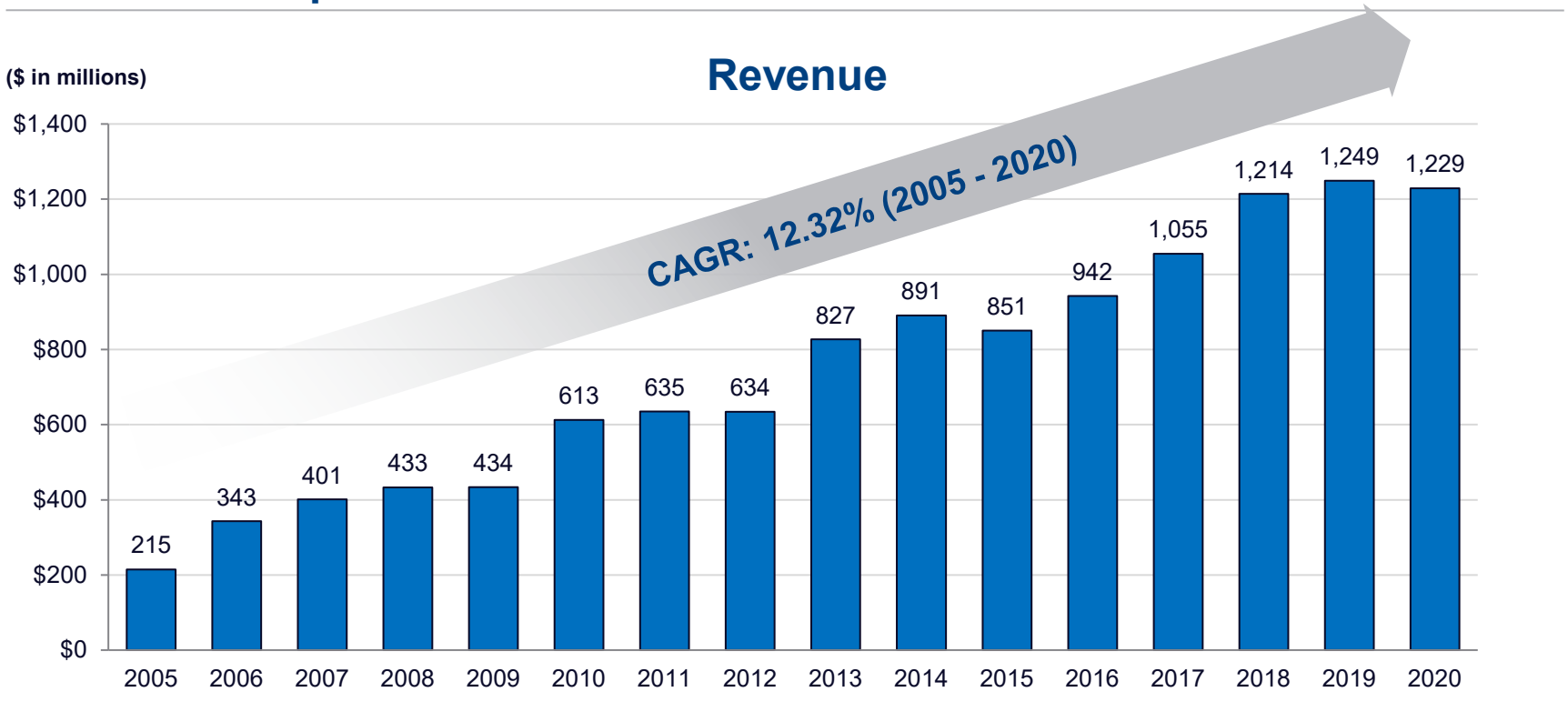
Our Sustainability Commitment

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.

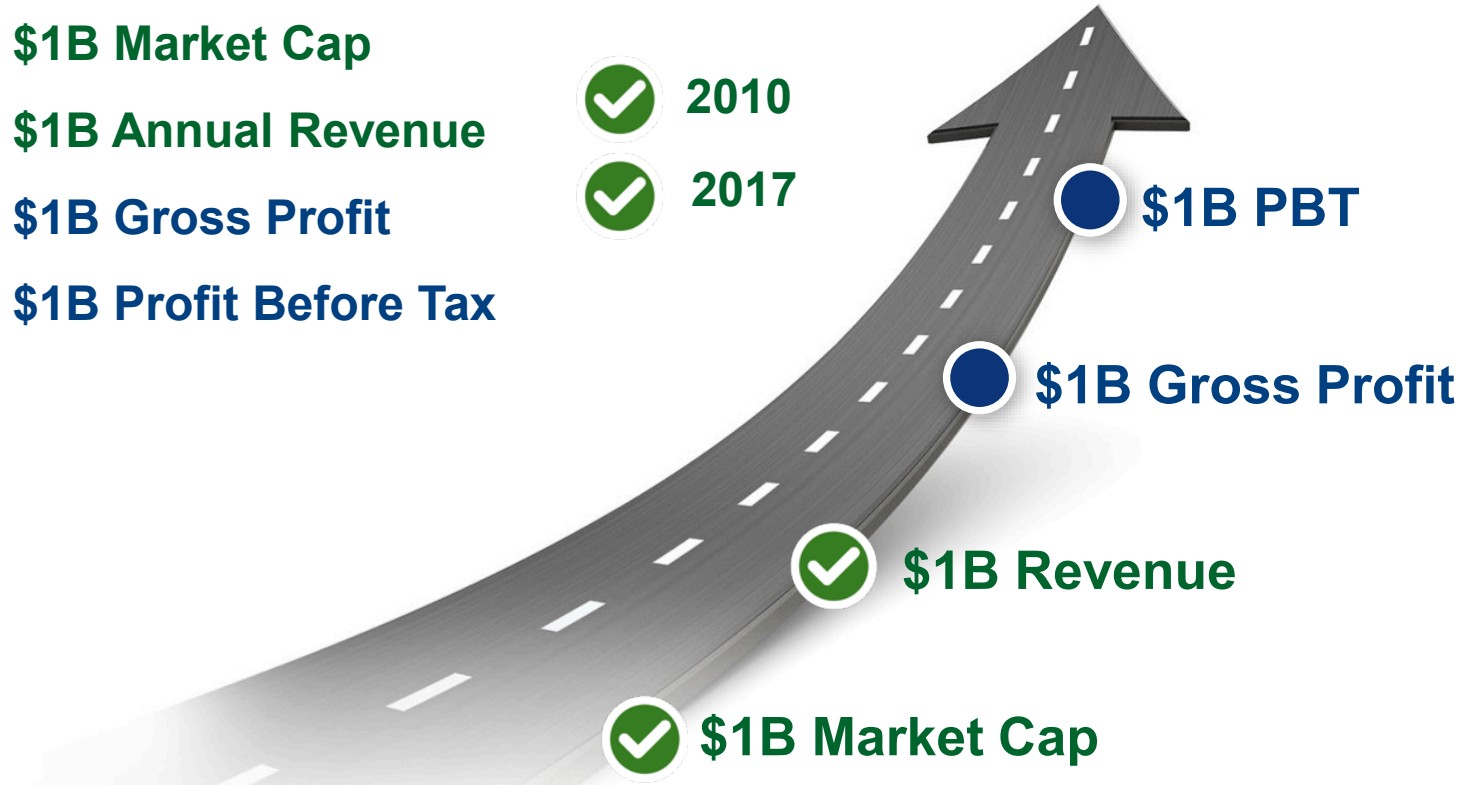
Track Record of Consistent Growth

Continued Outperformance of Served Markets



Vision: Create Shareholder Value

- Goal 1: $1B Market Cap
- Goal 2: $1B Annual Revenue
- Goal 3: $1B Gross Profit
- Goal 4: $1B Profit Before Tax



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Shifting Gears to Profitability Growth

Mission:

Profitable growth to
expand shareholder value

Strategy:

Grow Revenue to $2.5B
at 40% Gross Margin

Goal:

$1B Gross Profit by 2025

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Targeted Market Segment Distribution

~40% of revenue (34% for 2020)

Automotive

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

Industrial

- Embedded systems and precision controls

~60% of revenue

Consumer

- IoT: wearables, home automation, smart infrastructure

Communications

- Smartphones: advanced protocols and charging

Computing

- Cloud computing: server, storage, data centers

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Automotive Applications Driving Growth

Focus Applications:

Connected Driving

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

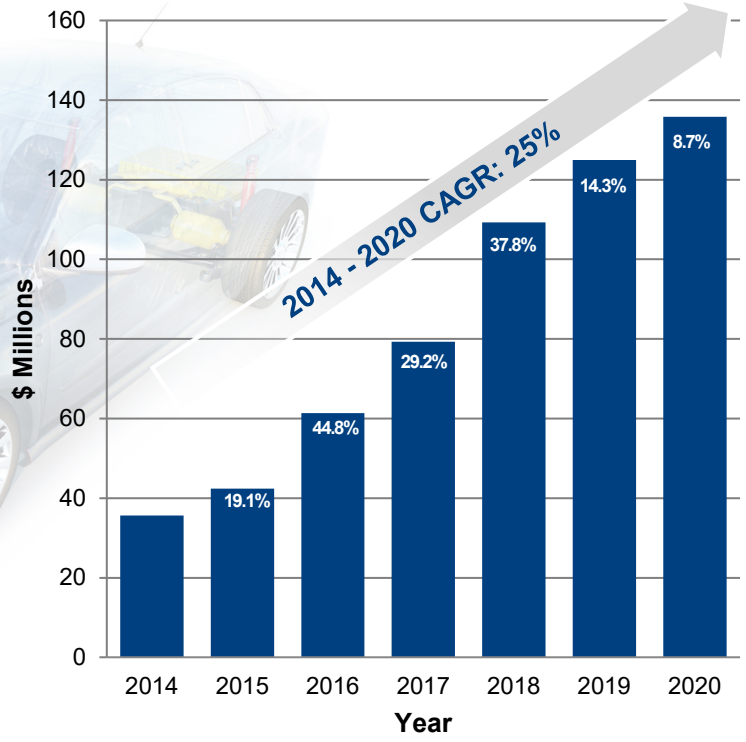
Comfort, Style and Safety

- **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 Year over Year Increase



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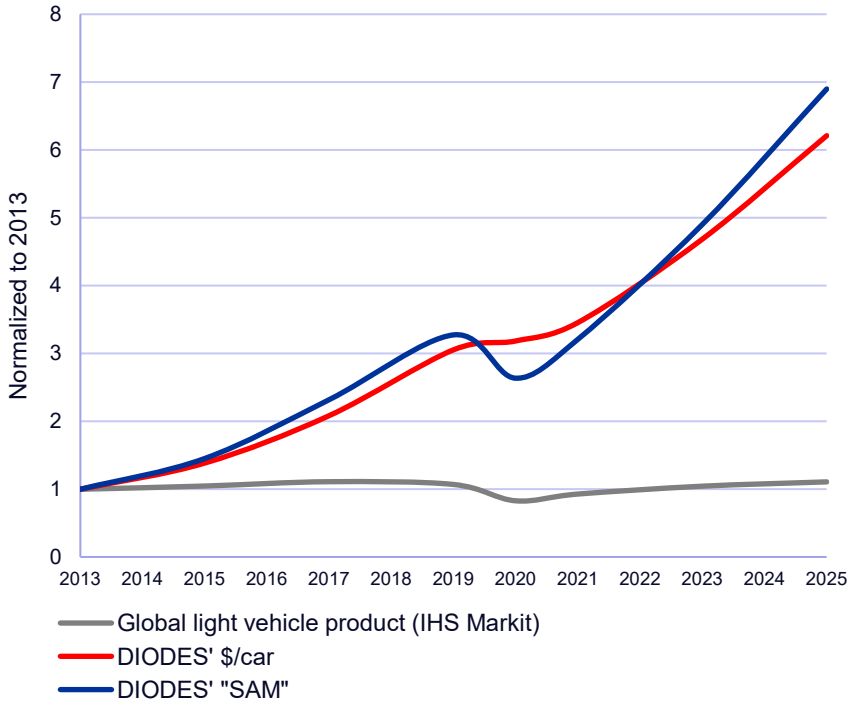
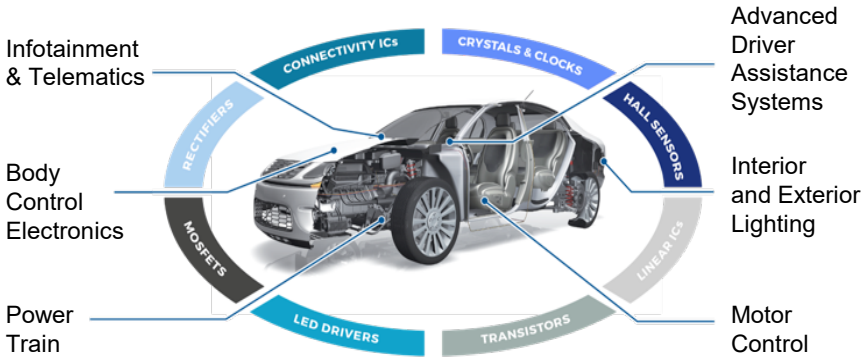
Automotive Opportunity



Car & LV Volumes – IHS Markit 2020

DIODES' SAM = volume * $/car

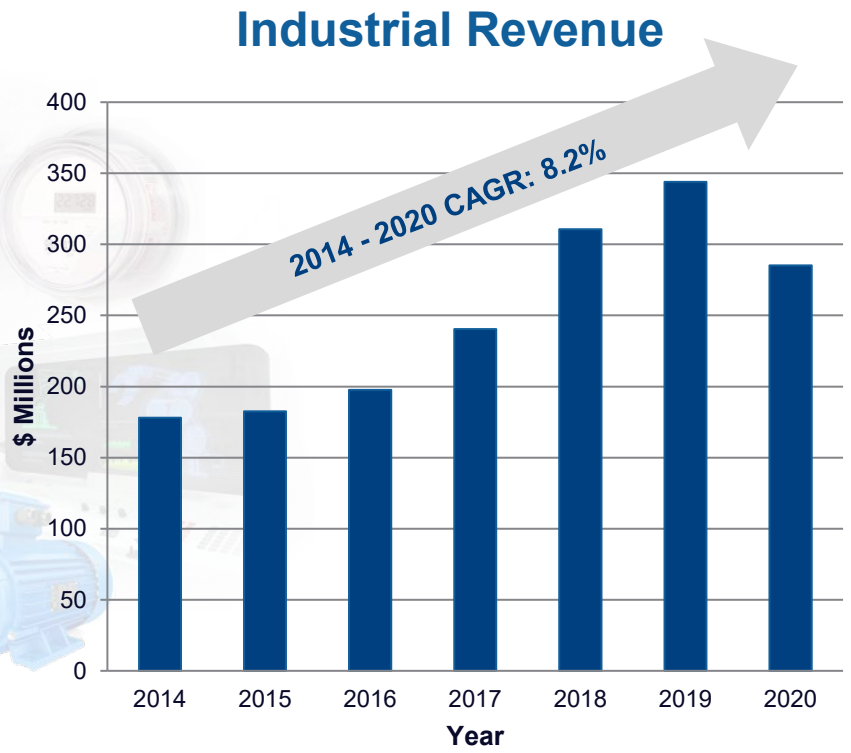


2021 Automotive Potential Revenue	$ / Car
Automotive Motor Control	$39.57
Connected Driving (Infotainment, Telematics & ADAS)	$30.97
Powertrain, Electrification & Body Control Electronics	$14.77
Lighting – Moving to LED	$11.23
Total	**$96.54**

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 2020, 23% of total revenue is from Industrial market



IoT – Machine to Machine (M2M)

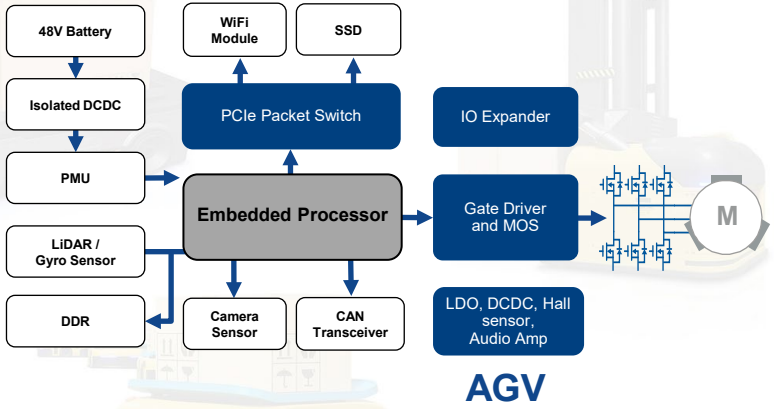
- **M2M – Dominated by short range technology**
  - 73% are short range, mostly Wi-Fi
- **2017: connections @ 750 million**
- **2023: connections @ 2600 million**

M2M – By Product

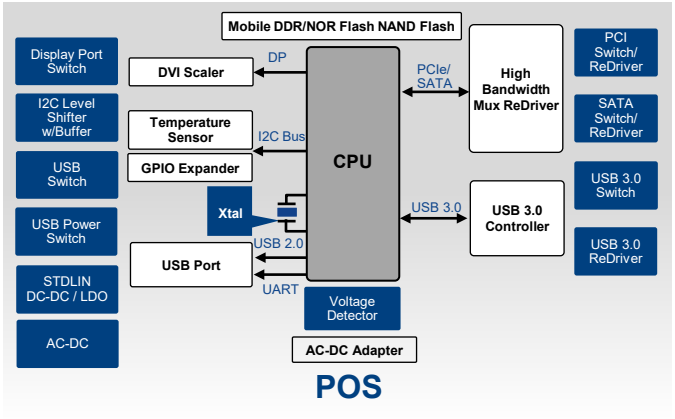
- IoT and M2M Modems
- Routers
- POS
- AGV (Automated Guided Vehicle)
- UAV (Unmanned Aerial Vehicle)

M2M – By Application

- Smart Infrastructure
- POS
- Manufacturing / Industrial



AGV



POS

Growth Opportunities:

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

Diodes Key Products	$ / AGV
Discrete	$3.5
Analog	$0.4
Timing and Connectivity	$10.4
Total	**$14.3**

Consumer: IoT Driving Power & Connectivity Requirements

Smart Infrastructure

Consumer & Home

Wearables

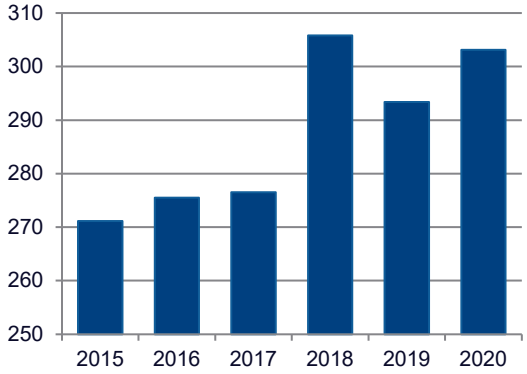
Asset Tracking

Retail

Enterprise

Security & Surveillance

Consumer Revenue ($M)



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**

IoT Segment: Smart Home

Smart Home – expected to grow to 1.4Bu by 2023

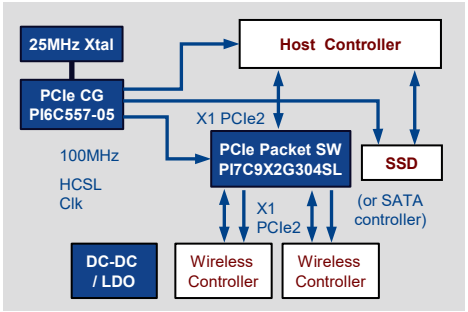
- Safety and Security
- Climate Control
- Consumer Electronics
- Lighting control

Growth Opportunities

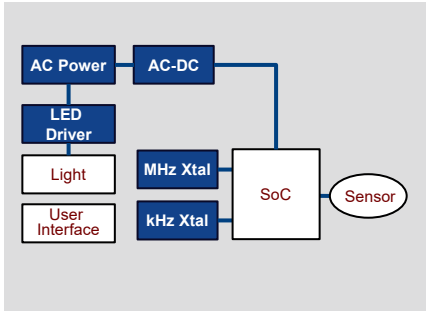
- Power
- LED driver
- Xtal and clock
- Packet switch

Diodes Key Products	$ / Box
Analog	$0.40 ~ $0.65
Power Management	$1.80
MOS/BJT	$1.10
Diodes and Rectifiers	$0.50
Timing and Connectivity	$3.50
Total	**$7.55**

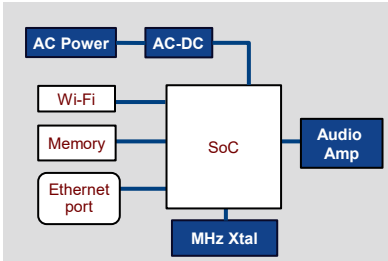
Smart Home Gateway



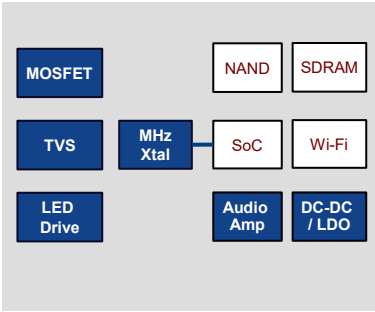
Smart Lighting



Smart Speaker



Digital Assistant



Smartphone: Efficiency, Functionality and Control

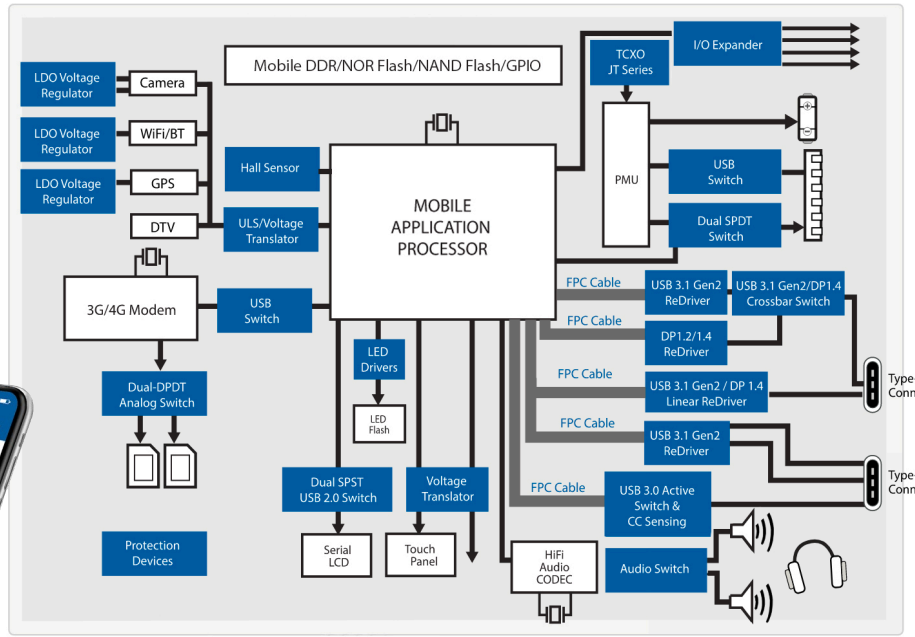
Driving Smartphone Growth

- Smart speaker/IoT 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	$ / Phone
Analog	$0.55
Power Management	$1.50
MOS/BJT	$0.33
Diodes and Rectifiers	$0.42
Timing and Connectivity	$3.00
Total	**$5.80**



Cloud Computing Accelerating Enterprise Market

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

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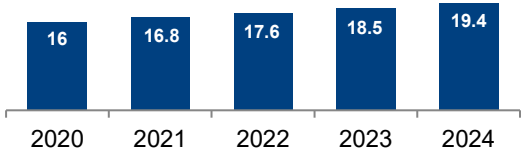
Computing Platform: Server/Storage Solution

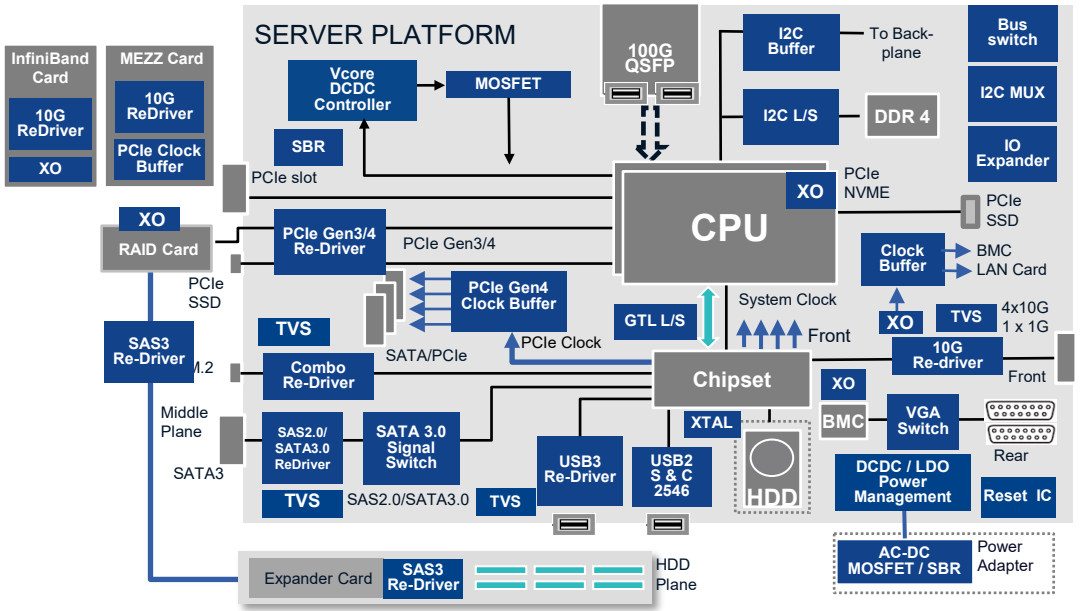
Server Platform Solution

- CAGR is 5% (2020-2024)
- 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 Switches, Protection or HV MOSFET / SBR devices

WW Server total shipments (Mu)



Diodes Key Products	$ / Server
Analog	2.31
Discrete	3.41
Timing and Connectivity	23.34
Total	**$29.06**

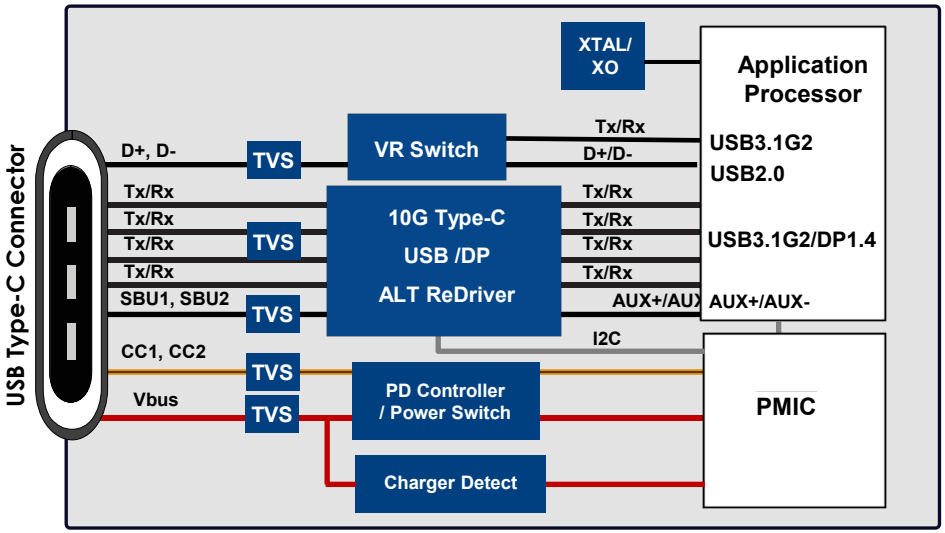


USB Type-C Applications Driving Growth

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

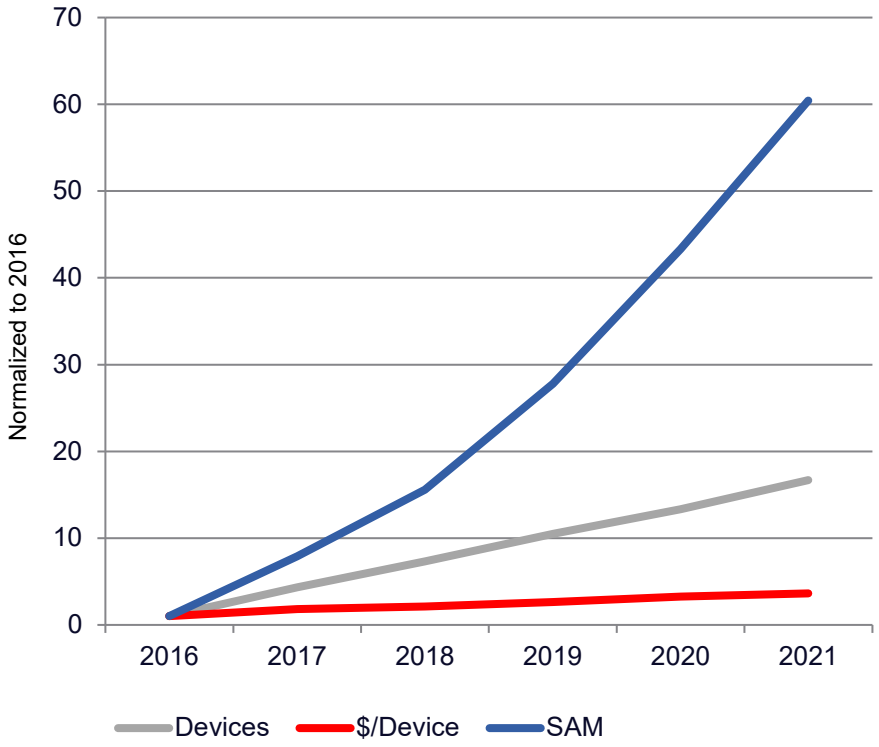
Focus Applications:

- Smartphone, Tablet
- NB/DT/WS/AIO, PC, Server
- CE Appliance
- PC Peripheral/Monitor
- Inflight Entertainment
- Automotive - Infotainment
- Robotics
- Chargers



Supports data, video, and power

USB Type-C Potential



2021 Automotive Potential Revenue	$ / Car
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

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

  - IHS Dec 2017

5G Applications Driving Growth

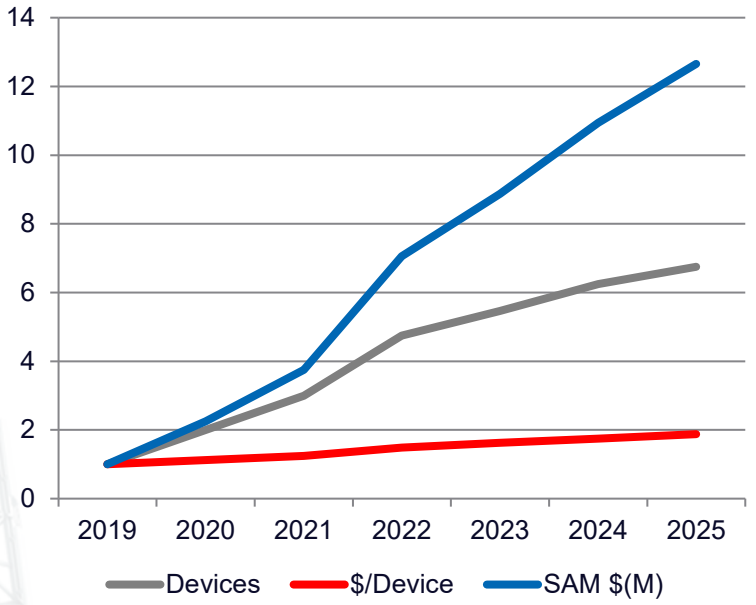
Focus Applications:

Cloud Computing
- Data Center Server

Gateway
- Internet Gateway
- Fiber network

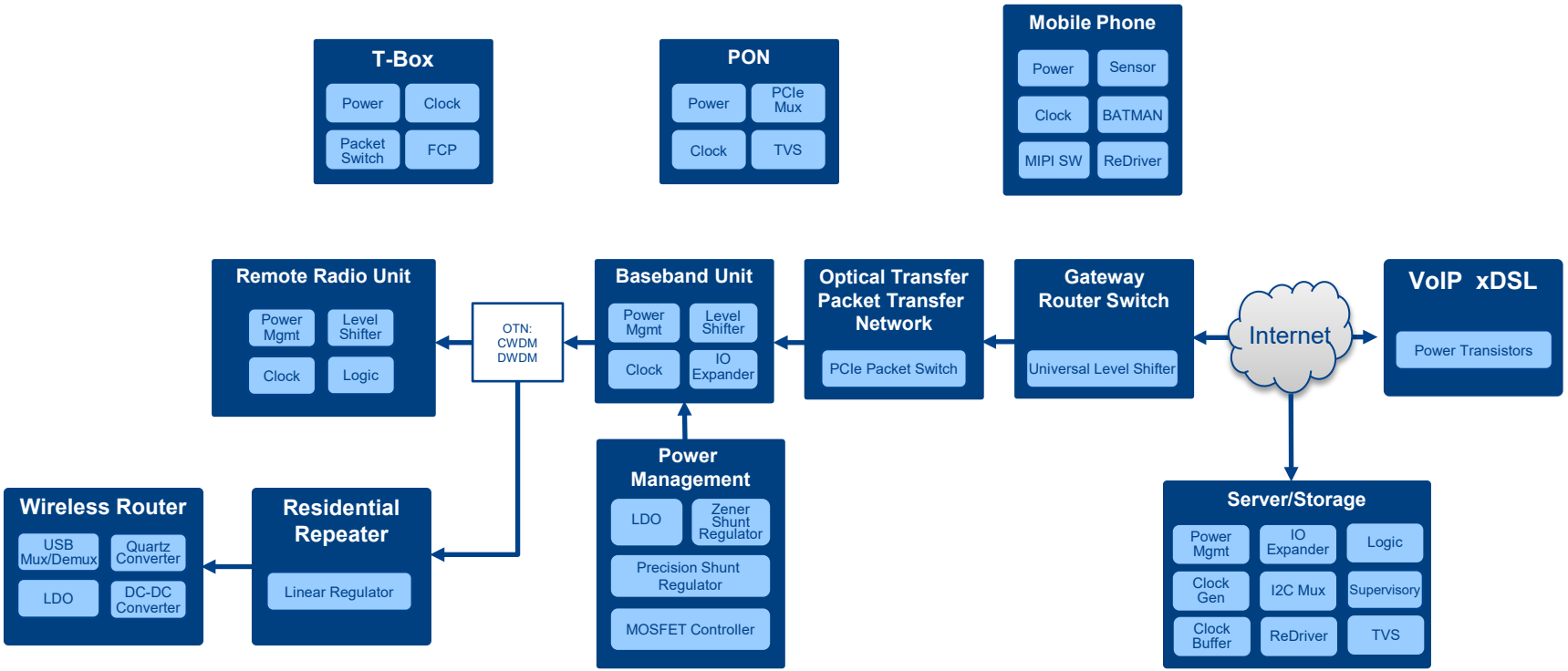
Core Network, Cell Stations
- Small Cells
- Base Station
- Edge Computing Server
- Smart antenna
- Fiber network

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

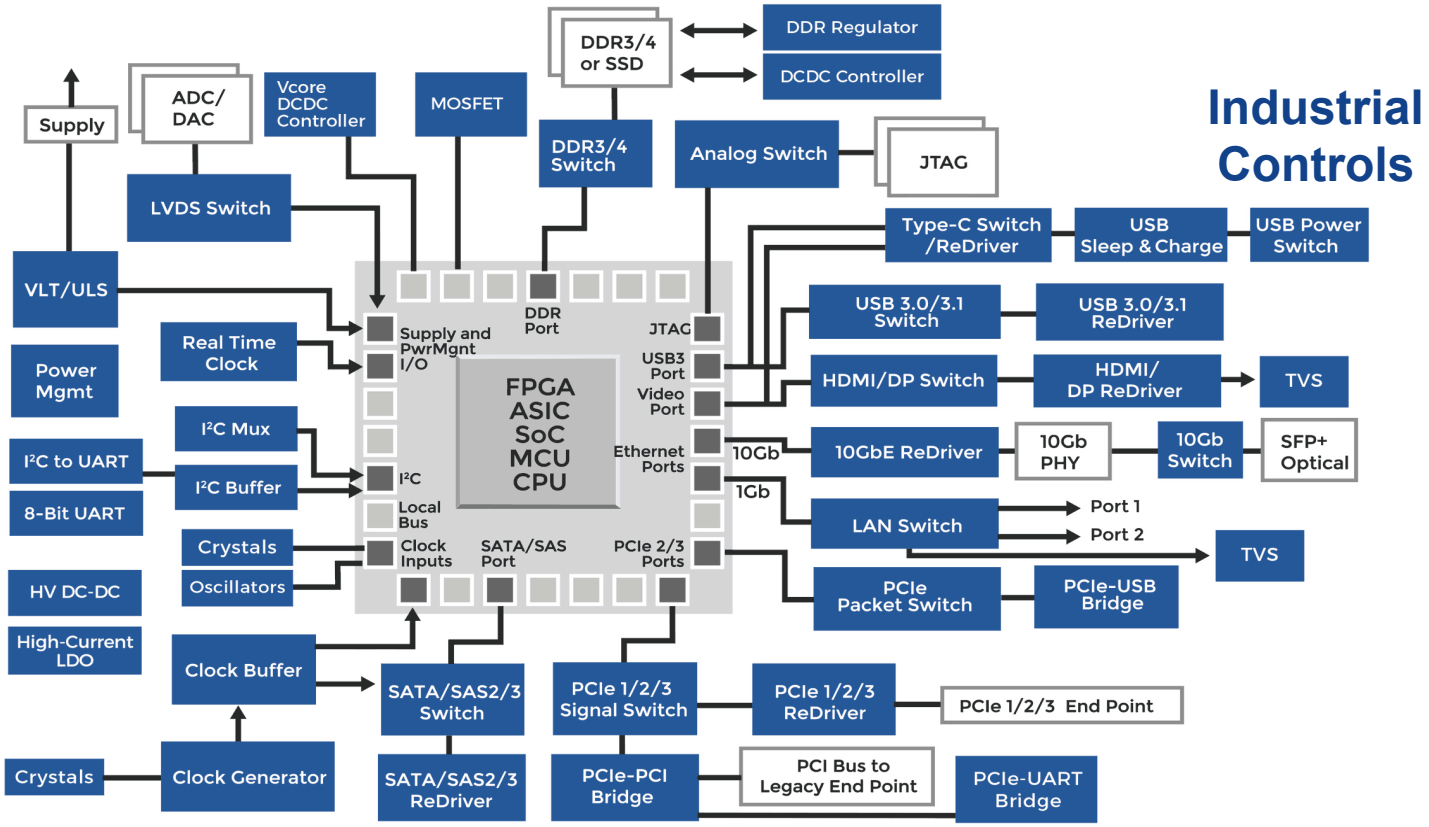


Diodes Key Products	$ / System
Precision Timing & Connectivity	$5.00 ~ $10.00
Discrete	$2.03 ~ $2.50
Analog	$9.00 ~ $11.28
Total	**$16.03 ~ $23.78**

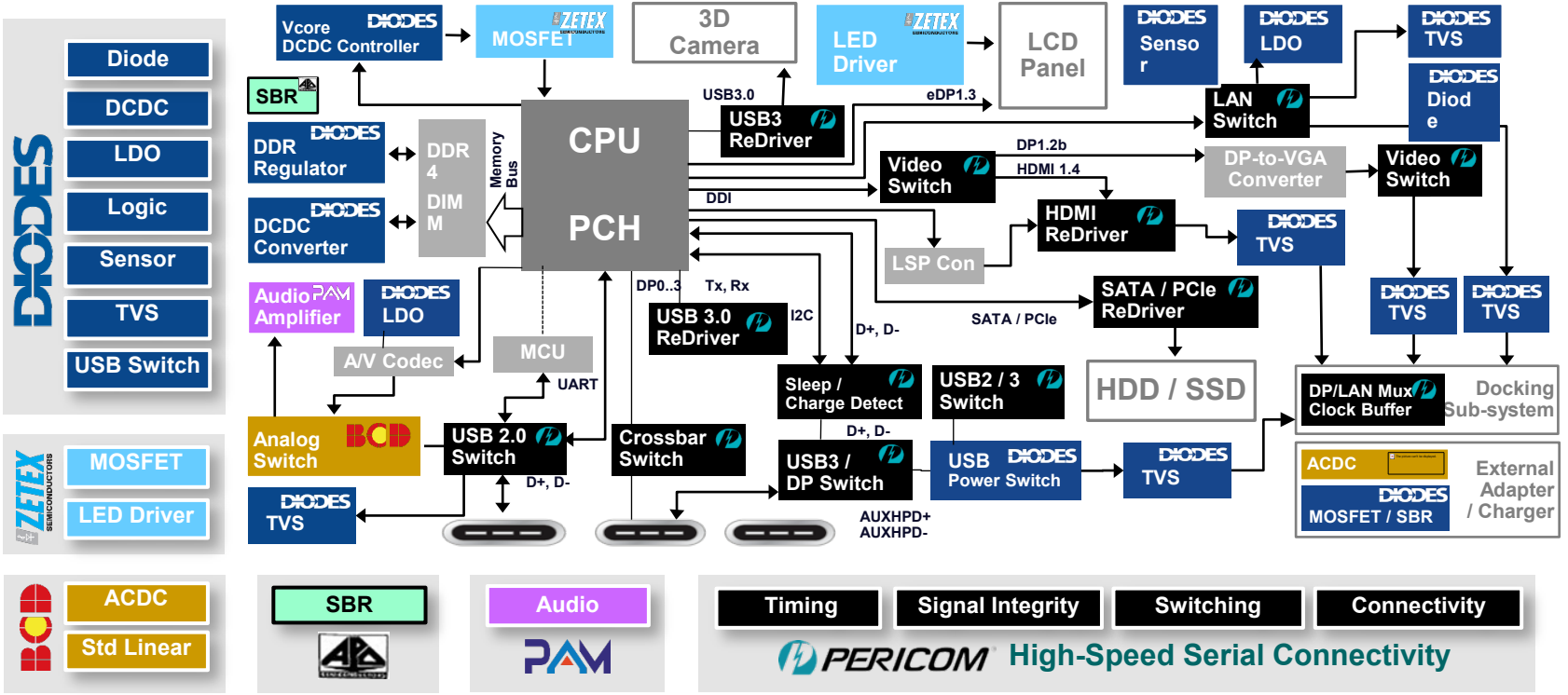
5G System Opportunities



Solutions Provider for Industrial or Embedded Applications

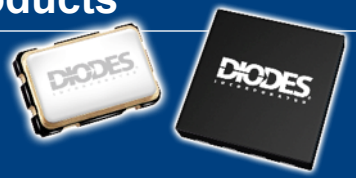


Complete Platform Solutions: Notebooks



Technology Focus

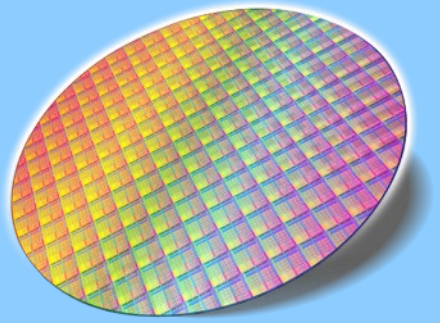
Products



- 20Gbps ReDrivers and Switches
- Automotive Packet Switch for Telematics / ADAS
- Complete USB Type-C Signal Switching
- High speed clocking for cloud computing
- Ultra low power and low noise LDOs for IoT
- Low Cj TVS for signal integrity
- Lowest $R_{DS(ON)}$ LDMOS for battery efficiency

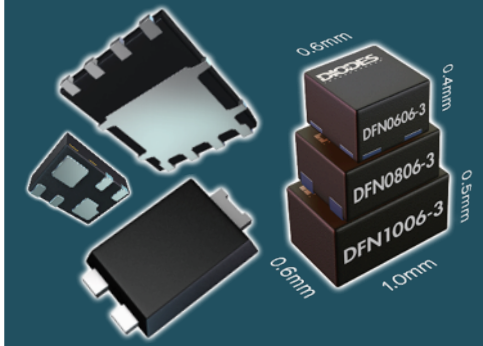
Wafer Fab

- 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



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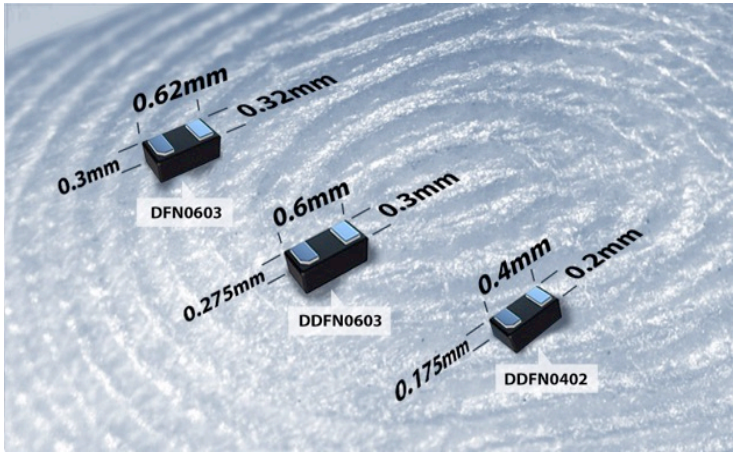
Key Differentiator – Packaging Design

Focus: Miniaturization and Power Efficiency

Miniaturization and Multi-Chip Packaging

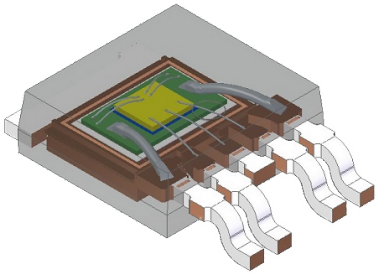
Miniaturization

DDFN0402
the smallest discrete semiconductor package



Multi-Chip Packaging

Dual-Flat No-Lead (DFN) DDFN (Encapsulated CSP) Chip-Scale Package (CSP)
HS IntelliFET: ZXMS3001



Efficient Manufacturing + Superior Processes

Packaging

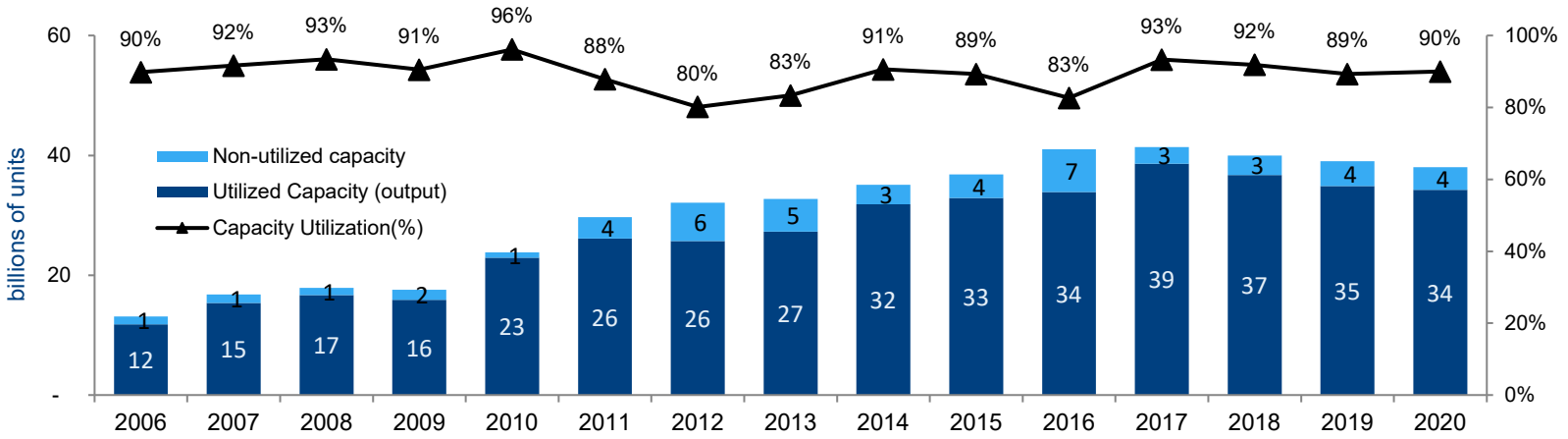
- Shanghai-based packaging with capacity over 34 billion units
- Chengdu facility has potential capacity 3X of Shanghai
- Additional facilities in Neuhaus, Germany and Wuxi, China

Wafer Fabs

- China fabs in Shanghai and Wuxi, Taiwan fabs in Hsinchu and Keelung, and UK fabs in Greenock and Oldham
- Bipolar, BiCMOS, CMOS and BCD process
- Strong engineering capabilities

Economies of Scale: Package Capacity & Loading Percentage in SAT & CAT

*CapEx Model = 5% - 9% of Revenue



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First Quarter 2021 Financial Performance

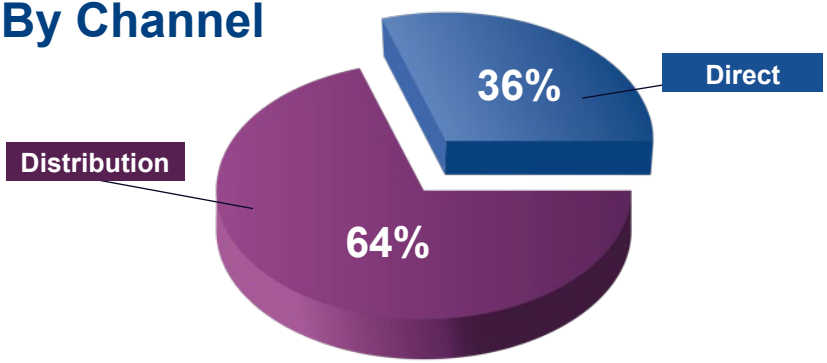
($ in millions, except per share amounts)	1Q20	4Q20	1Q21
Net sales	280.7	350.4	413.1
Gross profit (GAAP)	95.8	122.7	138.6
Gross profit margin % (GAAP)	34.1%	35.0%	33.6%
Net income (GAAP)	20.2	29.7	39.5
Net income (non-GAAP)	23.9	37.3	42.0
EPS (non-GAAP)	0.46	0.74	0.93
Cash flow from operations	53.7	60.8	68.2
EBITDA (non-GAAP)	52.9	67.1	81.7

Balance Sheet

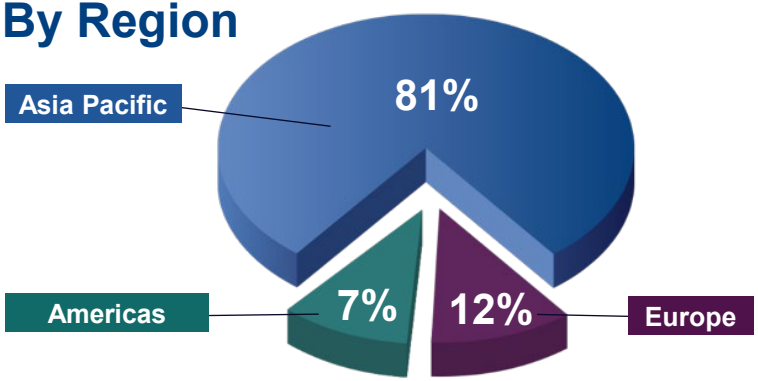
($ in millions)	Dec 31, 2019	Dec 31, 2020	March 31, 2021
Cash/Cash equivalents/restricted cash plus short-term investments	264	327	339
Inventory	236	307	290
Current Assets	810	1,024	1,050
Total Assets	1,639	1.980	1,990
Total Debt (L/T, S/T, Line of Credit)	111	451	413
Total Liabilities	487	963	933
Total Equity	1,153	1,016	1,057

Revenue Profile for First Quarter 2021

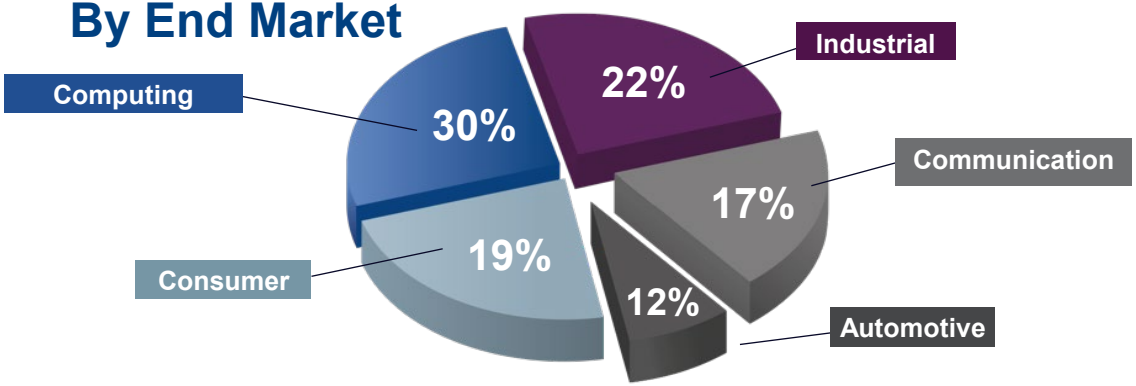
By Channel



By Region



By End Market



Second Quarter 2021 Business Outlook

- **Revenue to increase to ~$434 million, +/- 3.0%**
  - a record on both an organic and consolidated basis for a combined increase of about 5% sequentially at the mid-point
- **GAAP gross margin of 35.6%, +/- 1%** on a consolidated basis
- **Non-GAAP operating expenses 20.5% of revenue, +/- 1%**, which are GAAP operating expenses adjusted for amortization of acquisition-related intangible assets
- **Net Interest expense of ~$1.6 million**
- **Income tax rate to be 19%, +/- 3%**
- Shares used to calculate diluted EPS approximately **45.7 million**
- Purchase accounting adjustments related to amortization of acquisitions-related intangible assets of $3.3 million, after tax, for Pericom and previous acquisitions is not included in these non-GAAP estimates

**Guidance as provided on May 6, 2021*

DIODES INCORPORATED

Summary

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

Thank you