

Data I/O Corporation December 2019 Investor Presentation

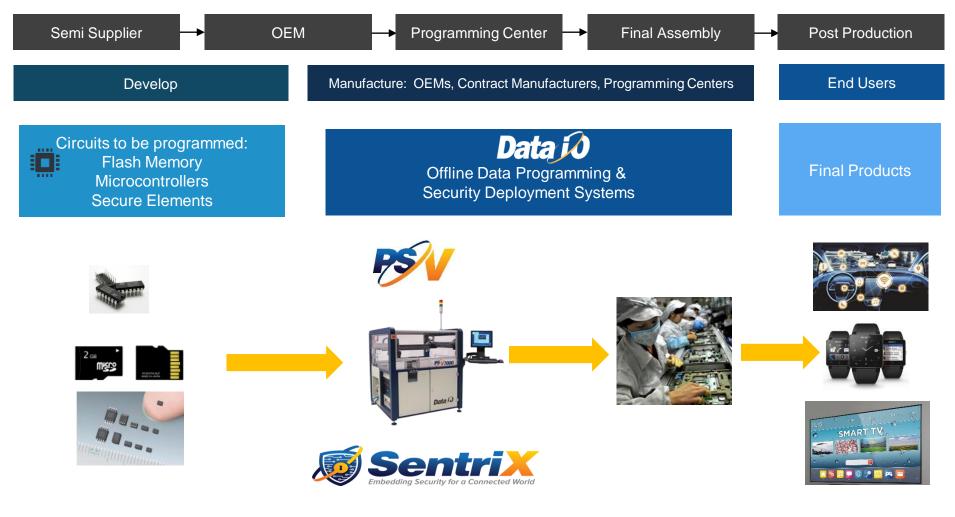


The matters that we discuss today will include forwardlooking statements that involve risks factors that could cause Data I/O Corporation's results to differ materially from management's current expectations. We encourage you to review the Safe Harbor statement contained in the earnings release as well as our most recent SEC filings for a complete description. Additionally, those forward-looking statements are made as of today, and we take no obligation to update them.

# **Supporting the Secure Digital World**



Data I/O's programming systems are used by the world's leading manufacturers, programming centers, and contract manufacturers, to securely program integrated circuits and bring their devices to life.



# **Company Snapshot**



#### **Recent Achievements and Trends**

- 5 consecutive years of profitability
- Strong momentum in Automotive and IoT devices
  - 8 of top 9 Auto electronics companies are customers
  - 5-year global supply agreement with Bosch extended by 2.5 years in 3Q18
  - ~60% of revenue from Automotive Electronics customers
- Expand new markets with introduction of PSV2800
- Industry and technology awards for Lumen®X, Universal Flash Storage (UFS), PSV Lines and SentriX<sup>®</sup>
- Over 275 PSV systems sold
- Traction for SentriX Security Provisioning Platform

#### **Committed to Growing Shareholder Value**

- Focusing programmable core competencies on higher growth, higher margin vertical markets
- Differentiated market position through technology leadership and global support
- Approx. 16% of stock held by insiders so that management and Board are aligned with shareholders
- \$2 million buyback completed in 3Q19

#### Company Snapshot <sup>(1)(2)</sup>

NASDAQ:	DAIO
Headquarters:	Redmond, WA
Established:	1972
Stock Price:	\$4.00
Market Cap:	\$33M
Diluted Shares:	8.2M
10-Day Avg. Volume:	30,000 shares
Sales (TTM):	\$23.6M
Net Income (TTM):	\$(43,000)
Diluted EPS (TTM):	\$(0.00)
Adj. EBITDA <sup>(3)</sup> (TTM):	\$2.1M
Cash & Sec. (9/30/19):	\$15.2M (\$1.85/share)
Debt (9/30/19):	\$0.0

- (1) Stock price, market cap and volume as of 11/22/19; Source: Yahoo
- (2) Financials for the TTM period ended 9/30/19 or as noted
- (3) Adj. EBITDA is a non-GAAP financial measure. A reconciliation is provided in this presentation



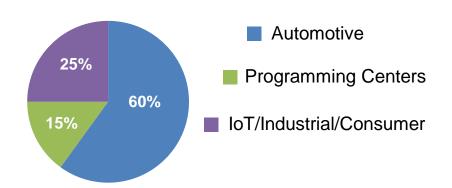
# Long Term Growth Focus

- Growth strategy focused on advanced data programming and security deployment solutions for Automotive Electronics, Internet of Things (IoT) and Industrial markets
  - Expansion of addressable markets
  - Technology leadership through continued heavy R/D investment in intellectual property portfolio
  - Greater balance between capital equipment sales and recurring revenues
- Developing new partnerships for Security Deployment Platform
- Allocating capital and other resources for opportunistic growth; return excess capital to shareholders

# Serving Customers Globally in Growing Markets



- The largest programming company in the world, 2-3 times larger than the next programming company
- Global footprint with headquarters in Redmond, USA and subsidiary offices in Shanghai China and Munich Germany



#### 2018 Annual Orders by End Markets



# How Data I/O Markets Grow



**Programming Impact** 

### **Market Forces**

- IoT and Automotive Growth
  - Devices Get Smaller
  - Move towards Automation



 Products will increase their code size as customers want more features



 Products will be more secure, creating new opportunities



**Programming Demand = Units x Bits x Security** 

# Market Leading Technology



#### **Industry Leading Products**

#### **Automated Handlers**



**Programming Engines** 



**Managed and Secure Programming Systems** 



#### **History of Innovation**

- Data I/O's products are viewed as the "gold standard" for advanced programming equipment and IP management and security solutions.
- Research and Development focused on:
  - Breakthroughs in programming technology to support explosive demand for automotive infotainment solutions using large FLASH memories and microcontrollers.
  - Security Deployment Platform technology for Internet of Things applications
  - Introduced Universal Flash Storage (UFS) solution and SentriX<sup>™</sup> Security Platform
- During the past 15 years, Data I/O has been granted ~50 U.S. and International utility patents. Currently, Data I/O has ~20 U.S. and International utility patents pending.

## Data I/O Sets Blistering Pace for **Programming Market**





Service Excellence Award for World-Class Device Programming



NPI Award & Mexico Technology Award for New **Job Composer** Software Application



Technology Award, 5<sup>th</sup> Industry Award for Universal Flash Storage (UFS) Support on LUMEN

November 2019: Machine Learning-Based Automated Teach Capability for PSV7000

October 2019: PSV2800 Automated Programming System for 3,000 unites per hour production



Doubles Programming Performance w/ TurboBoost™ for LUMEN Programmers

2x increase in programming performance for eMMC devices shown at IPC APEX Expo 2019





Programming Platform Doubles Download Speed

& Support Next-Generation Microcontrollers



Scripting Interface Upgrade to SentriX<sup>®</sup> Secure Provisioning System





DigiCert's Certificate Signing Services via Data I/O's SentriX<sup>®</sup> Secure Provisioning System





# **Financial Overview**



# **Third Quarter 2019 Highlights**

- Net sales of \$3.8 million; bookings of \$4.3 million
- Gross margin as a percentage of sales of over 52%
- Net loss of \$(844,000) or \$(0.10) per share
- Adjusted EBITDA\*, excluding equity compensation, of \$(306,000)
- Cash & Equivalents of \$15.2 million; no debt
- Auto. electronics, advanced programming and secure provisioning leadership
  - Automotive represented 57% of bookings year to date through 3Q19
  - Announced the new PSV2800 system with performance up to 3,000 parts per hour for dedicated high-volume programming applications
  - Growth in SentriX<sup>®</sup> devices provisioned, device types supported, design wins, and sales funnel
  - Received 2019 Mexico Technology Award in the category of Device Programming for the new Job Composer Software Application
  - Key speaking engagements and presentations planned for productronica, the major biennial electronics manufacturing innovations trade show in Munich, Germany
  - Ended 3Q19 with 12 partners, 5 system deployments for SentriX system
- Repurchased 56,000 shares to complete \$2 million buyback authorized in October 2018

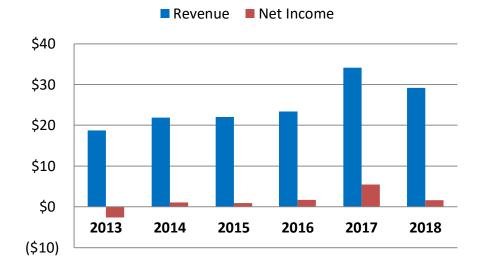
# **Operational Performance**

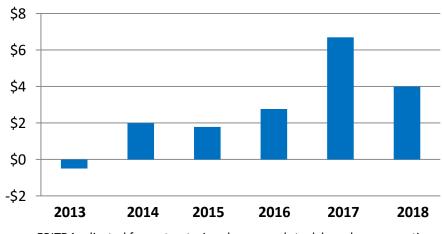


### Long Term Performance Improvements through Innovation and Operational Excellence

#### **Revenue and Net Income (\$M)**

**Adjusted EBITDA (\$M)** 





EBITDA adjusted for restructuring charges and stock based compensation

#### **Growth Drivers**

- · Semi-cap equip. cycle
- Automotive Electronics
- Internet-of-Things
- · Recurring revenues from installed base
- SentriX revenues (ramping in 2020)

# Balance Sheet and Capital Structure Overview

# Data i

#### **Balance Sheet Highlights**

#### At September 30, 2019:

- \$15.2 million in cash and cash equivalents
- No debt
- \$18.4 million of net working capital
- Total stockholders' equity of \$21.4 million, or approx. \$2.61 per diluted share outstanding
- EV/Sales at 0.7x<sup>(3)</sup>
- EV/Adjusted EBITDA at 5.2x<sup>(3)</sup>
- NOLs of approximately \$13.0 million

#### Enterprise Value (\$K)

Market Cap <sup>(1)</sup>	\$ 33,000
Plus Total Debt <sup>(2)</sup>	0
Less Total Cash <sup>(2)</sup>	<u>\$ 15,200</u>
Enterprise Value	\$ 17,800
Diluted Shares Outstanding <sup>(2)</sup>	8,200,000
(1) At 11/22/19; Source: Yahoo	

(2) At 9/30/19

<sup>(3)</sup> Sales and Adjusted EBITDA based on TTM through 9/30/19 financial results

#### **Balance Sheet Strategy**

- Important to maintain strong balance sheet in a cyclical industry, with about 65% of revenues from capital equipment sales
- Financial flexibility allows the company to:
  - Withstand, and advance during, downturns in semi cycle
  - Invest in organic and acquisitive growth opportunities for the long term
  - Develop recurring revenue streams
- \$2 million buyback approved in 4Q18. Completed program in quarter ended 9/30/19 with total purchase of 404,000 shares
- Approx. \$8.0 million returned to shareholders from buybacks authorized in '12, '16 and '18

# **Capital Equipment to Recurring Revenue**



#### **Capital Equipment**

- Approx. 65% of 2018 sales
- Off-line and in-line programming systems
- Automated systems cost \$68K-\$677K
- Manual systems cost \$10K-\$52K
- Usually last 5-7 years
- Adapters fit to these products
- Installed base drives recurring consumables sales

#### Adapters



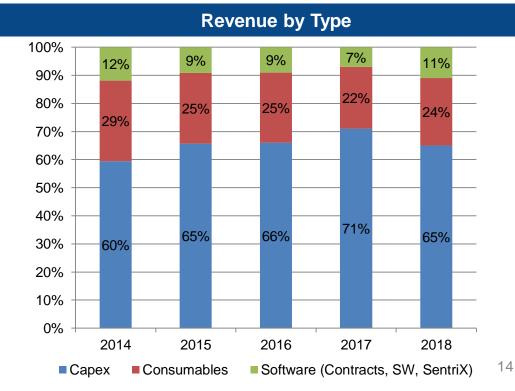
- Approx. 24% of 2018 sales
  - Usually last 3-24 months

**Consumables** 

#### **Software and Maintenance**



- Approx. 11% of 2018 sales
- Annual software upgrades



#### **Mix Shift in Revenues**

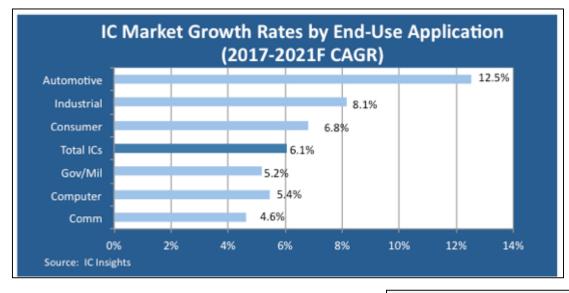
- SentriX drives strategy shift toward consumable and recurring revenues over time
- SentriX revenue for security deployment is recurring
- Lower % capital equipment sales reduces cyclicality



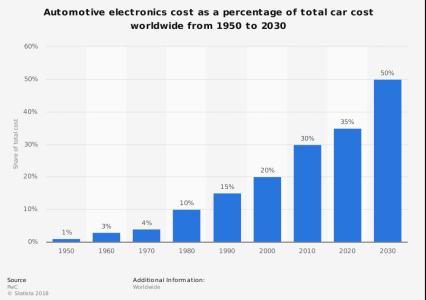
# Market Outlook

# Automotive & Industrial Semi Growth Drives Programming Market





Automotive & Industrial continue to be fastest growing segments



# **Automotive Electronics Evolution**

#### Addressing Macro Trends in Automotive

Visteon

Data i O

Visteon



#### Cockpit of the Future



#### Smart Mobile Assistant

### Fully Digital Iarge curved

- Large, curved digital displays
- Haptic, knob-on-glass for tactile feedback

#### Connected

- · Access to cloud data and services
- · Hybrid cloud/edge computing

#### Automated

- · Advanced active safety features
- Self-driving under specific conditions

#### Learning

- Machine learning based solutions
- · Improved voice and identification features

#### Voice Enabled

- · Conversational cockpit assistant
- Natural language voice interaction

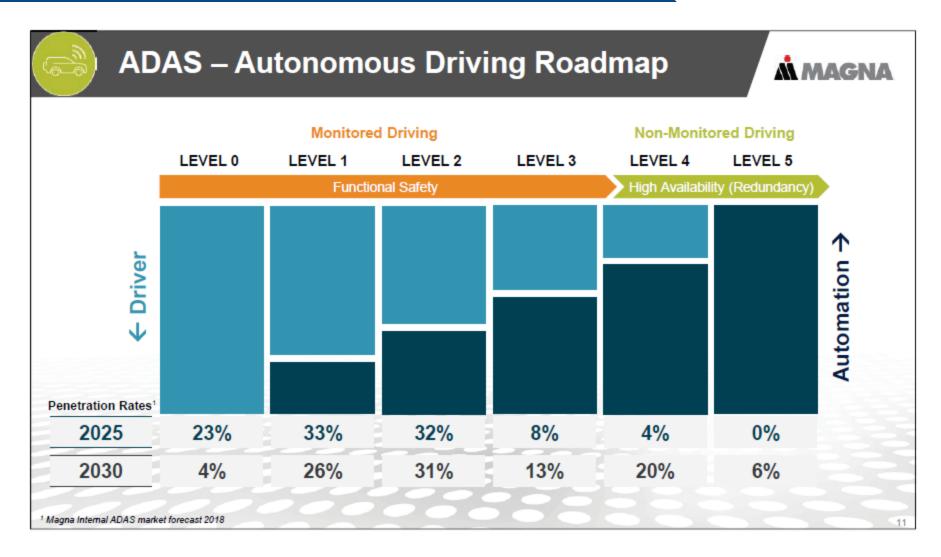






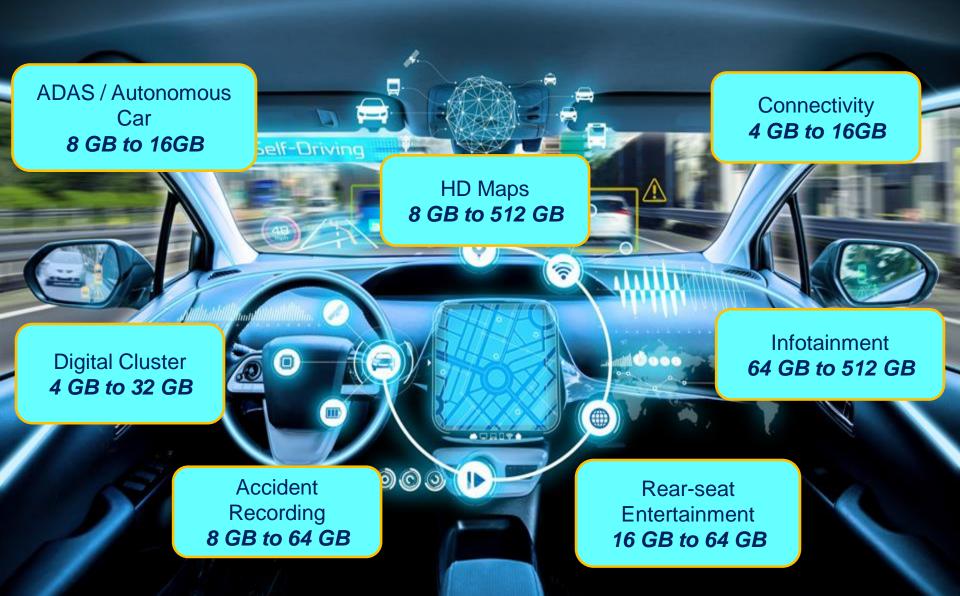
# **ADAS Penetration Over Time**





#### Substantial Growth in Electronics Subsystems Well Before Fully Autonomous Driving





Automotive is Moving to UFS FLASH Data is

Western Digital, Samsung, Micron & Toshiba support Automotive Grade UFS devices

> **6** out of the top **9** automotive electronics manufacturers are transitioning from eMMC to UFS

**8** out of the top **9** automotive electronics suppliers choose Data I/O

# **Data I/O Delivers Automotive UFS**

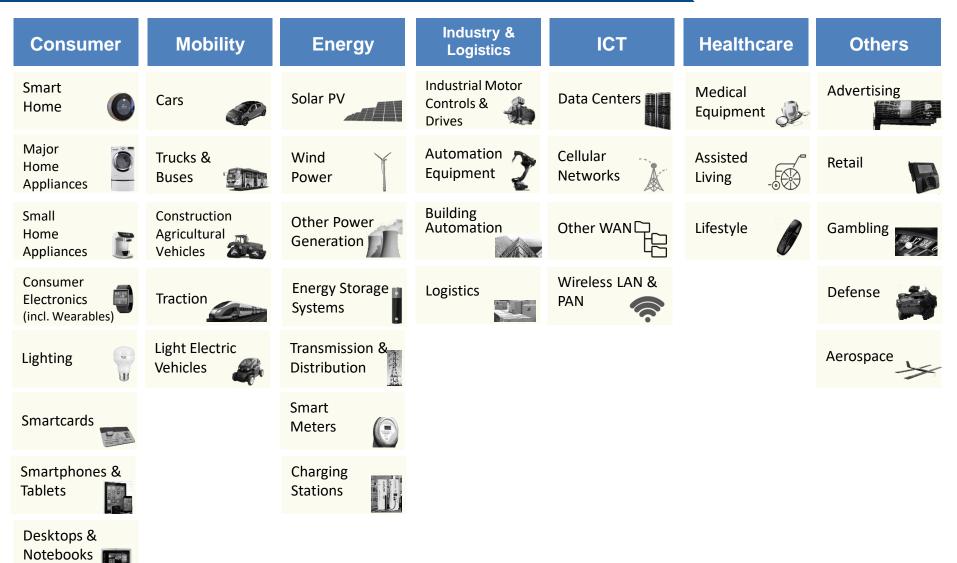




# Maximum Performance Maximum Flexibility & Extensibility Investment Protection for Customers

# **IoT Market Segmentation**

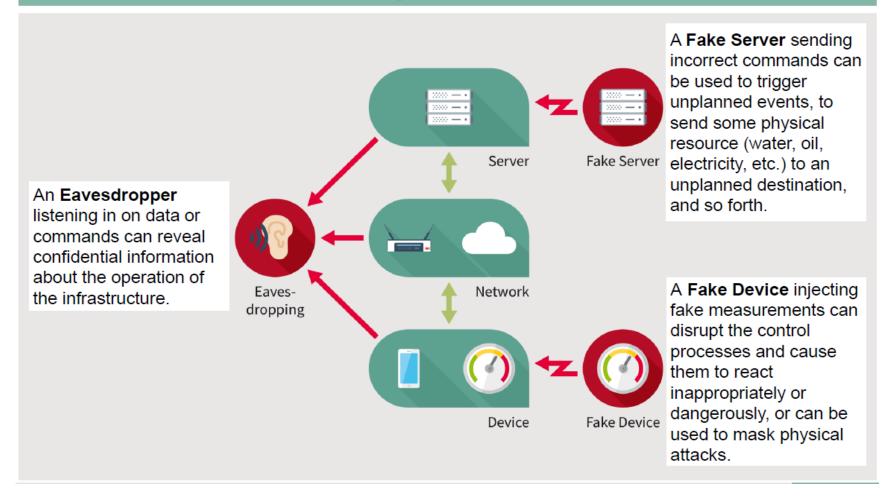




# **IoT Device Security Threats**



#### Security threats for IoT



# IoT Market Drivers -Multi-year Secular Growth

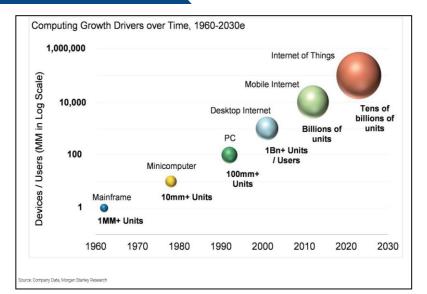
 The IoT is forecast to be bigger than the mobile internet and desktop markets

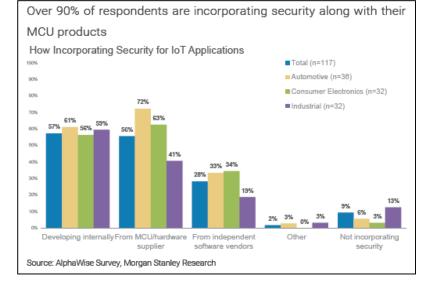
"We believe nearly every single industry will eventually migrate to an IoT model yielding 50 billion connected devices by 2020."

Needham & Company, November 27, 2015

 ...But Security Issues are top of mind and must be addressed



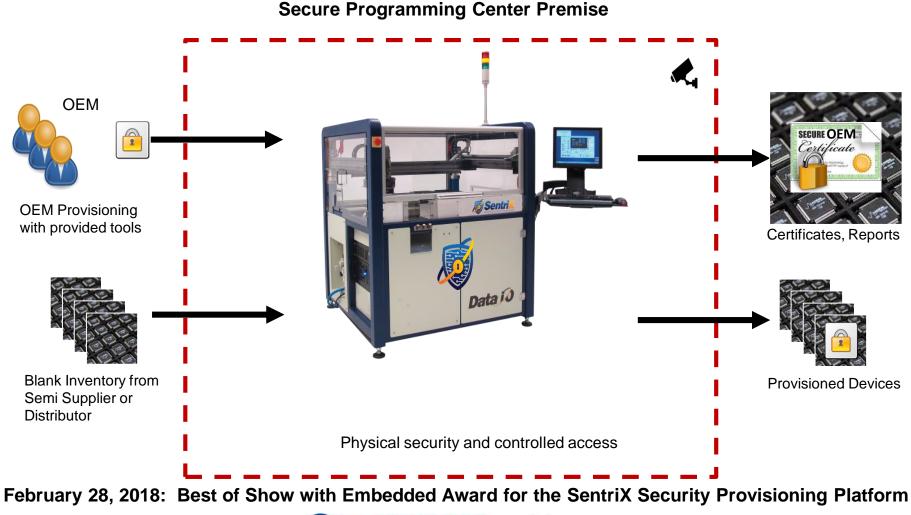






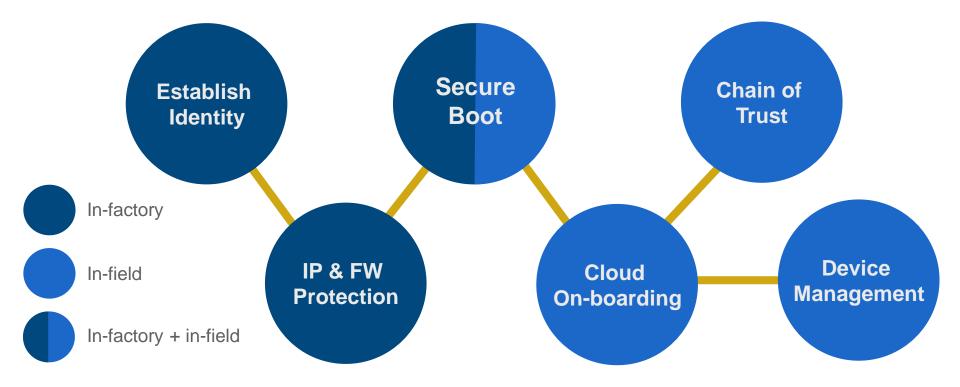
# SentriX<sup>®</sup> Security Deployment Platform



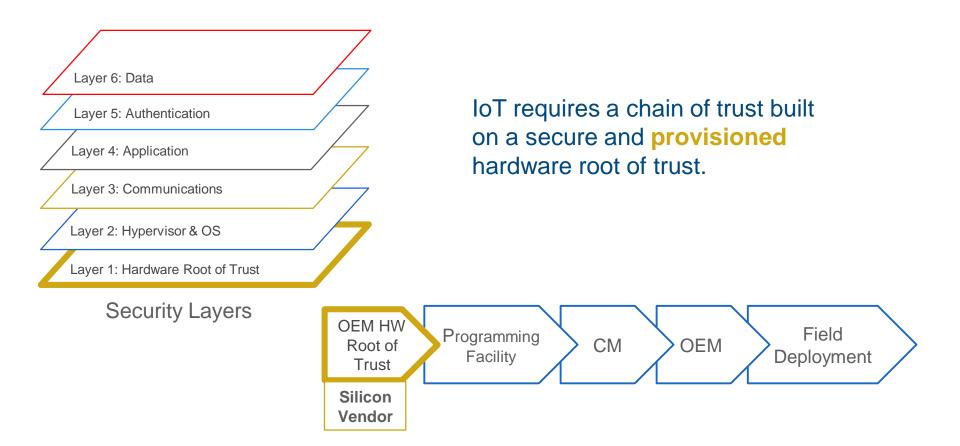












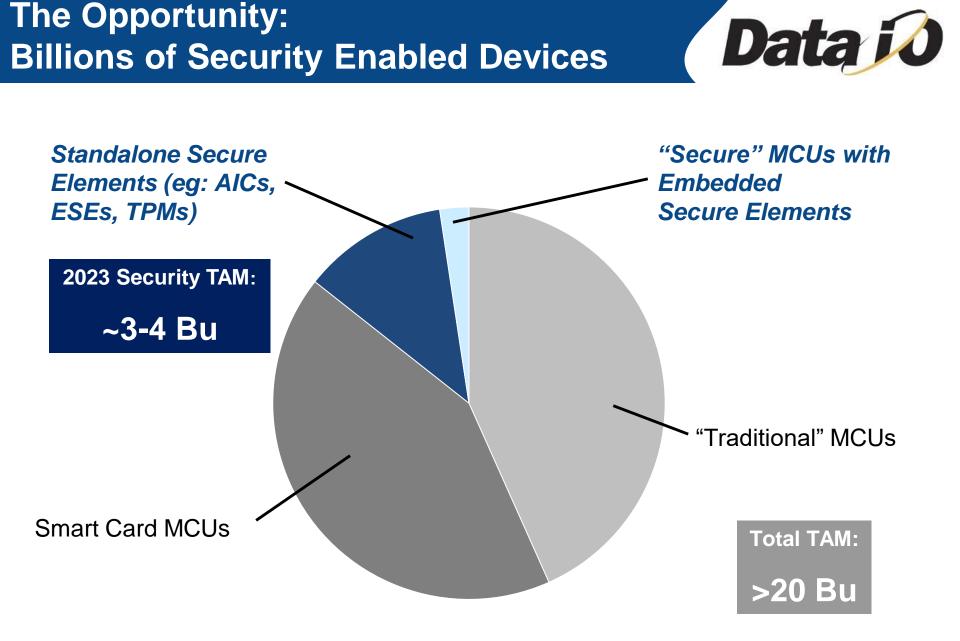
# **New Partnerships for Growth**





SentriX Plan: Securing IoT Devices for OEMs of any Size and Volume

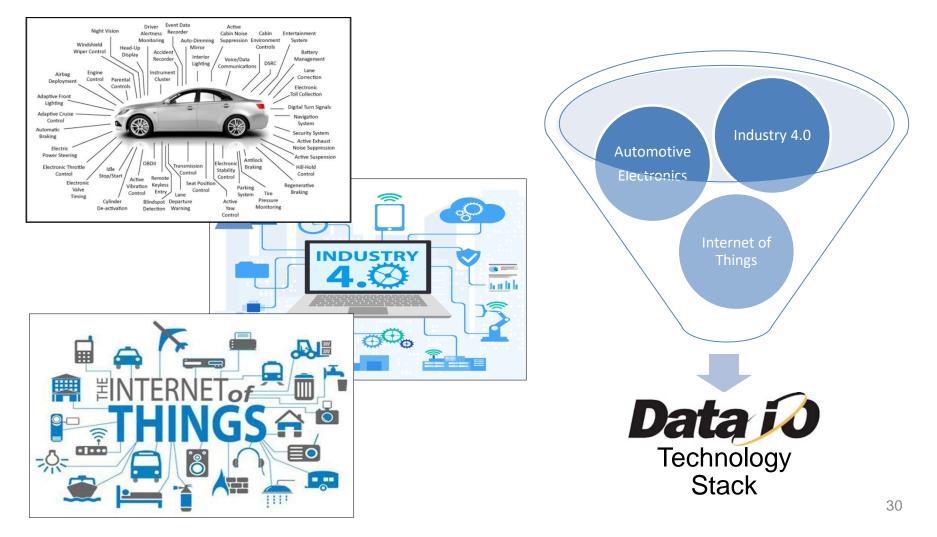
- Deployment in October 2017 of first SentriX Security System; 5 deployed at 9/30/19
- Additional Industry support announcements from 2018 through 2019
- Revenue Recognition: scaling begins 2020 with multiyear ramp from win to revenue



# The Long Term Opportunity

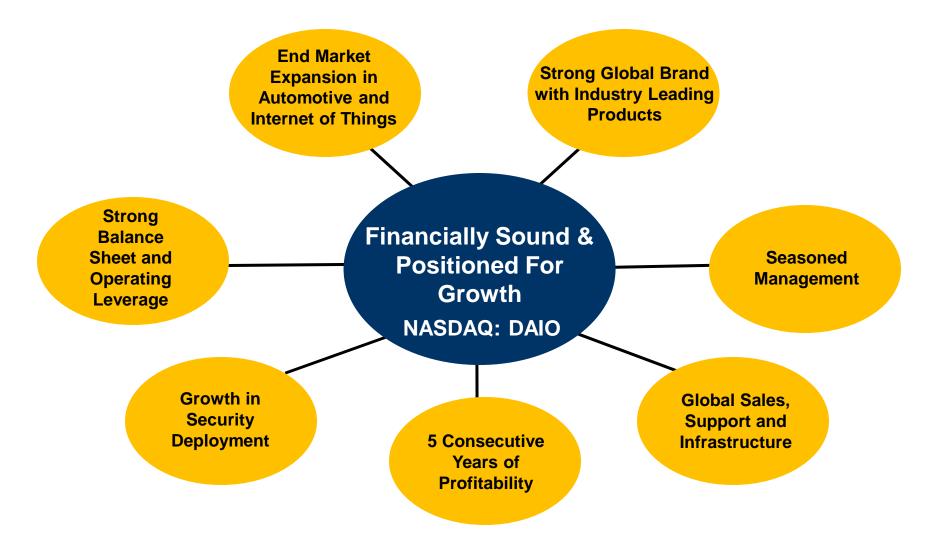


### Convergence of Microcontroller Programming and Security Provisioning



# Investment Merits: Positioned for Long-Term Growth







# **Thank You!**

For more information, please go to https://www.dataio.com/Company/Investor-Relations/Data-I-O-Profile

**NASDAQ: DAIO** 



# Appendix



#### NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2019	2018	2019	2018
(in thousands)				
Net Income(loss)	(\$844)	\$342	(\$690)	\$958
Interest (income)	(25)	(10)	(47)	(26)
Taxes	55	180	52	267
Depreciation and amortization	248	230	672	736
EBITDA earnings(loss)	(\$566)	\$742	(\$13)	\$1,935
Equity compensation Adjusted EBITDA earnings(loss),	260	282	911	932
excluding equity compensation	(\$306)	\$1,024	\$898	\$2,867



#### CONSOLDATED STATEMENTS OF OPERATIONS (in thousands, except per share amounts) (UNAUDITED)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2019	2018	2019	2018
Net Sales	¢2.909	ĊC F22	¢15 700	621 267
Cost of goods sold	\$3,808	\$6,533	\$15,700	\$21,367
Gross margin	1,806	2,415	6,430	8,584
Ŭ	2,002	4,118	9,270	12,783
Operating expenses:				
Research and development	1,507	1,826	4,868	5,550
Selling, general and administrative	1,535	1,888	5,338	6,239
Total operating expenses	3,042	3,714	10,206	11,789
Operating income(loss)	(1,040)	404	(936)	994
Non-operating income:				
Interest income	25	10	47	26
Gain on sale of assets	-	-	60	4
Foreign currency transaction gain (loss)	226	108	191	201
Total non-operating income	251	118	298	231
Income(loss) before income taxes	(789)	522	(638)	1,225
Income tax (expense) benefit	(55)	(180)	(52)	(267)
Net income(loss)	(\$844)	\$342	(\$690)	\$958
Basic earnings(loss) per share	(\$0.10)	\$0.04	(\$0.08)	\$0.11
Diluted earnings(loss) per share	(\$0.10)	\$0.04	(\$0.08)	\$0.11
Weighted-average basic shares	8,217	8,439	8,259	8,361
Weighted-average diluted shares	8,217	8,507	8,259	8,516

## **Balance Sheet – 3Q19**



#### CONSOLDATED BALANCE SHEETS (in thousands, except per share data) (UNAUDITED)

	September 30, 2019	December 31, 2018
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$15,178	\$18,343
Trade accounts receivable, net of allowance for		
doubtful accounts of \$48 and \$75, respectively	2,406	3,771
Inventories	5,432	5,185
Other current assets	582	621
TOTAL CURRENT ASSETS	23,598	27,920
Property, plant and equipment – net	1,733	1,985
Income tax receivable	640	598
Other assets	2,108	220
TOTAL ASSETS	\$28,079	\$30,723
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$869	\$1,755
Accrued compensation	1,373	2,872
Deferred revenue	1,586	1,392
Other accrued liabilities	1,308	789
Income taxes payable	49	47
TOTAL CURRENT LIABILITIES	5,185	6,855
Operating lease liabilities	1,334	-
Long-term other payables	126	511
COMMITMENTS	-	
STOCKHOLDERS' EQUITY		
Preferred stock -		
Authorized, 5,000,000 shares, including		
200,000 shares of Series A Junior Participating		
Issued and outstanding, none	-	-
Common stock, at stated value -		
Authorized, 30,000,000 shares		
Issued and outstanding, 8,210,884 shares as of September 30,		
2019 and 8,338,628 shares as of December 31, 2018	18,490	19,254
Accumulated earnings	3,005	3,695
Accumulated other comprehensive income	(61)	408
TOTAL STOCKHOLDERS' EQUITY	21,434	23,357
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$28,079	\$30,723

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#### NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Months Ended December 31,		Twelve Months Ended December 31,	
	2018	2017	2018	2017
(in thousands)				
Net Income	\$648	\$1,536	\$1,606	\$5,449
Interest (income)	(11)	(10)	(37)	(29)
Taxes	24	(495)	291	(288)
Depreciation and amortization	220	188	956	822
EBITDA earnings	\$881	\$1,219	\$2,816	\$5,954
Equity compensation	297	174	1,230	714
Adjusted EBITDA earnings,				
excluding equity compensation	\$1,178	\$1,393	\$4,046	\$6,668



#### CONSOLDATED STATEMENTS OF OPERATIONS (in thousands, except per share amounts) (UNAUDITED)

	Three Months Ended December 31,		Twelve Months Ended December 31,	
	2018	2017	2018	2017
Net Sales	\$7,857	\$8,096	\$29,224	\$34,051
Cost of goods sold	3,284	3,363	11,868	13,992
Gross margin	4,573	4,733	17,356	20,059
Operating expenses:				
Research and development	1,811	1,766	7,361	6,896
Selling, general and administrative	2,018	1,816	8,257	8,116
Total operating expenses	3,829	3,582	15,618	15,012
Operating income	744	1,151	1,738	5,047
Non-operating income (expense):				
Interest income	11	10	37	29
Gain on sale of assets	15	3	19	366
Foreign currency transaction gain (loss)	(98)	(123)	103	(281)
Total non-operating income	(72)	(110)	159	114
Income before income taxes	672	1,041	1,897	5,161
Income tax (expense) benefit	(24)	495	(291)	288
Net income	\$648	\$1,536	\$1,606	\$5,449
Basic earnings per share	\$0.08	\$0.19	\$0.19	\$0.67
Diluted earnings per share	\$0.08	\$0.18	\$0.19	\$0.65
Weighted-average basic shares	8,431	8,260	8,378	8,149
Weighted-average diluted shares	8,509	8,542	8,514	8,436

### **Balance Sheet – 2018**



#### CONSOLDATED BALANCE SHEETS (in thousands, except per share data) (UNAUDITED)

	December 31, 2018	December 31, 2017
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$18,343	\$18,541
Trade accounts receivable, net of allowance for		
doubtful accounts of \$75 and \$73, respectively	3,771	3,769
Inventories	5,185	4,168
Other current assets	621	708
TOTAL CURRENT ASSETS	27,920	27,186
Property, plant and equipment – net	1,985	2,458
Income tax receivable	598	598
Other assets	220	45
TOTALASSETS	\$30,723	\$30,287
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$1,755	\$1,301
Accrued compensation	2,872	3,536
Deferred revenue	1,392	1,787
Other accrued liabilities	789	858
Income taxes payable	47	218
TOTAL CURRENT LIABILITIES	6,855	7,700
Long-term other payables	511	527
STOCKHOLDERS' EQUITY		
Preferred stock -		
Authorized, 5,000,000 shares, including		
200,000 shares of Series A Junior Participating		
Issued and outstanding, none	-	-
Common stock, at stated value -		
Authorized, 30,000,000 shares		
Issued and outstanding, 8,338,628 shares as of December 31,		
2018 and 8,276,813 shares as of December 31, 2017	19,254	18,989
Accumulated earnings	3,695	2,089
Accumulated other comprehensive income	408	982
TOTAL STOCKHOLDERS' EQUITY	23,357	22,060
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$30,723	\$30,287

# **Financial Overview**



# Fourth Quarter and Full Year 2018 Highlights

- Net sales of \$7.9 million in 4Q and \$29.2 million for year
- Bookings of \$6.5 million in 4Q and \$27.0 million for year
- Gross margin of 58.2% for 4Q and 59.5% for year, above target of 57%
- Net income of \$648,000 or \$0.08 eps in 4Q and \$1.6 million or \$0.18 for year
- AEBITDA\*, excl. equity comp., of \$1.2 million in 4Q and \$4.0 million for year
- Cash/securities of \$18.3 million at end of year; No debt
- Automotive electronics and advanced programming leadership
  - $\circ$  Automotive represented 60% of bookings for the year
  - Won 5 industry awards in year
  - Released TurboBoost for eMMC 5.0 and 5.1 devices on the Lumen®X to enable doubling of programming performance
  - Bosch Agreement extended by 2.5 years and UFS products were added
- Progress for SentriX® Security Provisioning Platform
  - 4 systems deployed at 12/31/18 (2 in US and 2 in Europe)
  - o Partnership with Secure Thingz to Deliver Scripting Interface Upgrade
  - Partnership with DigiCert to enable PKI certificate management
  - Released Lumen®X version 1.6 to support doubling of programming speed and Dynamic Data Injection security
- \$536,000 used to purchase 102,000 shares during fourth quarter as part of \$2 million buyback program authorized in October 2018