

**NASDAQ: DAIO** 

Data I/O Corporation
May 2020
Investor Presentation

### Safe Harbor



The matters that we discuss today will include forward-looking 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 releases 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.

### At a Glance





### What We Do

Silicon Device Programming Equipment

Security Deploymentas-a-Service

### **Solutions**

We deliver the most secure and efficient systems to deploy firmware, data and secrets into IoT and automotive devices in high volume electronics manufacturing

## **Company Snapshot**



### **Recent Achievements and Trends**

- 5+ consecutive years of profitability (2014-2018); Cycle peaked in 2017 and appeared to bottom before COVID-19
- Strong momentum in Automotive and IoT devices
  - 8 of top 9 Automotive Electronics companies are customers
  - 5-year global supply agreement with Bosch extended by 2.5 years in 2018
  - ~60% of revenue from Automotive Electronics customers
- Expand new markets with introduction of PSV2800
- Industry and technology awards for Lumen<sup>®</sup>X, Universal Flash Storage (UFS), PSV Lines and SentriX<sup>®</sup>
- Over 290 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
- 3 buybacks since 2012 for \$8.1 million returned to shareholders

### Company Snapshot (1)(2)

NASDAQ: DAIO

Headquarters: Redmond, WA

Established: 1972

Stock Price: \$3.06

Market Cap: \$25M

Diluted Shares: 8.2M

3-M Daily Avg. Volume: 19,500 shares

Sales (TTM): \$20.3M

Net Income (TTM): \$(1.8)M

Diluted EPS (TTM): \$(0.12)

Adj. EBITDA<sup>(3)</sup> (TTM): \$240,000

Cash & Sec. (3/31/20): \$13.8M (\$1.68/share)

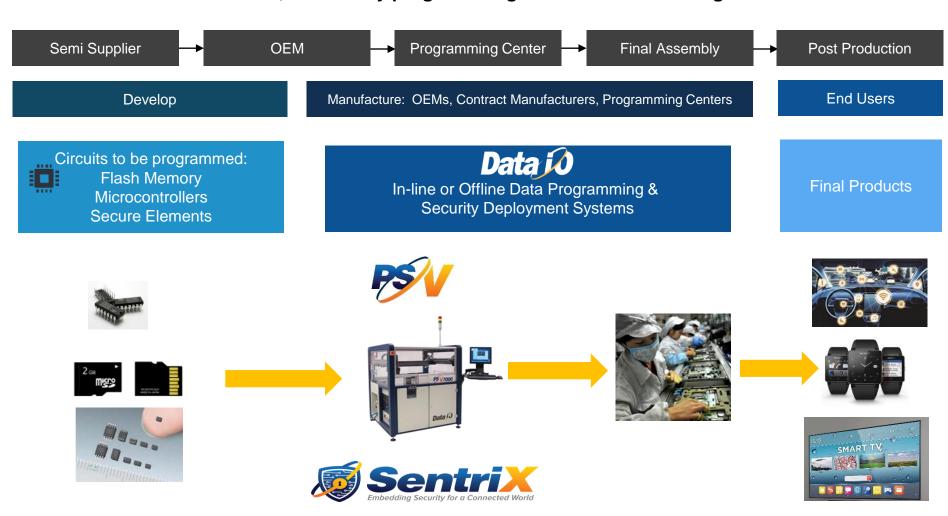
Debt (3/31/20): \$0.0

- (1) Stock price, market cap and volume as of 5/1/20; Source: Yahoo
- (2) Financials for the TTM period ended 3/31/20 or as noted
- (3) Adj. EBITDA is a non-GAAP financial measure. A reconciliation is provided in this presentation

## **Supporting the Secure Digital World**



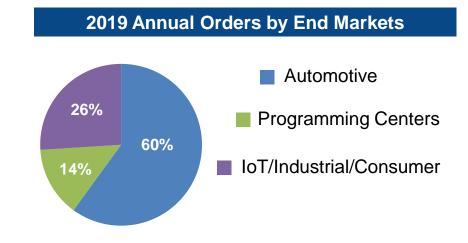
Data I/O's programming systems are used by the world's leading manufacturers, programming centers, and contract manufacturers, to securely program integrated circuits and bring their devices to life.



## Serving Customers Globally in Growing Markets



- The largest programming company in the world, 2-3 times larger than the next programming company
- Trusted supplier to 8 out of the top
   9 automotive electronics suppliers
- Providing mission critical medical applications for Class I and II devices
- Global footprint with headquarters in Redmond, WA, USA and subsidiary offices in Shanghai, China and Munich, Germany



### **Sample Customers Automotive** IoT/ Industrial/Consumer amazon BOSCH Honeywell **DESAYSV** KOSTAL Visteon® Microsoft DENSO Google Toshiba **Panasonic Programming Centers and EMS** Celestica\* SCC Kimball

## **How Data I/O Markets Grow**



## **Market Forces**

## **Programming Impact**

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



**Unit Growth** 

 Products will increase their code size as customers want more features



**Bit Growth** 

 Products will be more secure, creating new opportunities



Added Complexity + Security Requirements

## **Market Leading Technology**



### **Industry Leading Products**

#### **Automated Handlers**



### **Programming Engines**



Managed and Secure Programming Systems

SentriX



### **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, 5th 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 units per hour production



Doubles Programming Performance w/ TurboBoost™ for



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® Secure Provisioning System





DigiCert's Certificate Signing Services Data I/O's SentriX® Secure Provisioning System

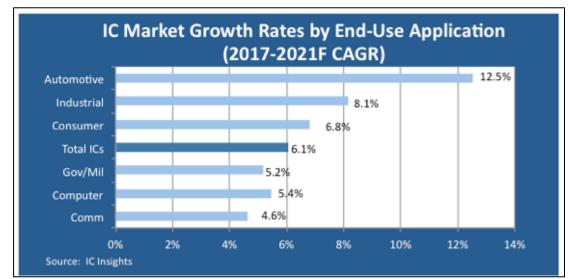




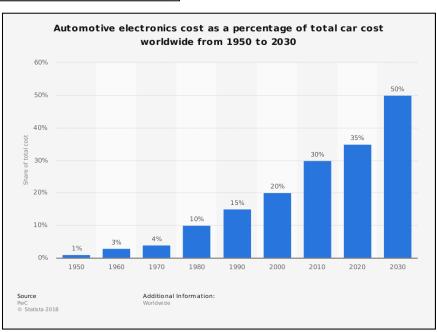
## **Market Outlook**

# **Automotive & Industrial Semi Growth Drives Programming Market**





Automotive & Industrial continue to be fastest growing segments



### **Automotive Electronics Evolution**



### Addressing Macro Trends in Automotive

Visteon<sup>®</sup>









### Cockpit of the Future





### **Smart Mobile Assistant**

#### **Fully Digital**

- · 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



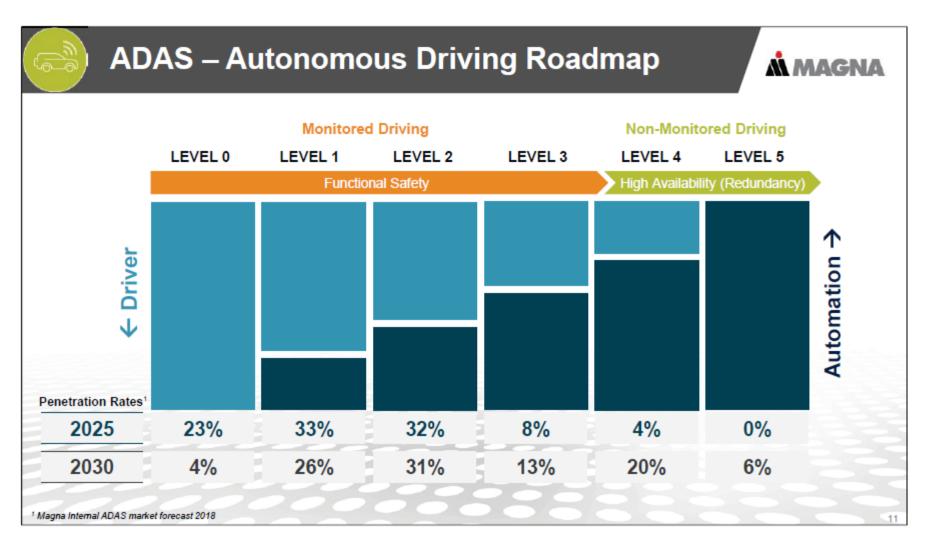
#### Voice Enabled

- Conversational cockpit assistant
- Natural language voice interaction



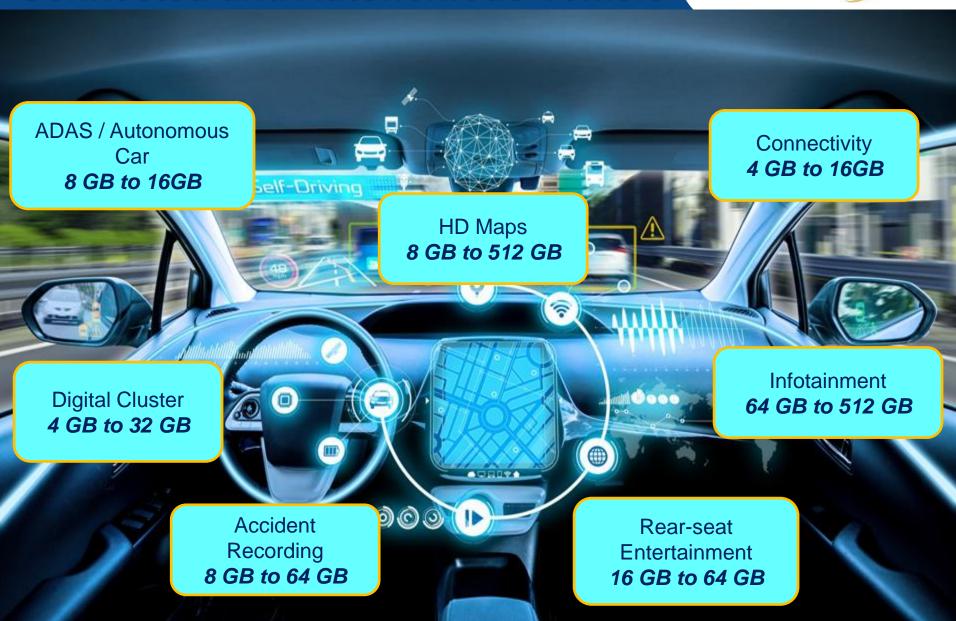
### **ADAS Penetration Over Time**





# FLASH Memory Growth in the Connected and Autonomous Vehicle





# Automotive is Moving to UFS FLASH Data



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

- 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

# IoT Market Drivers - Multi-year Secular Growth



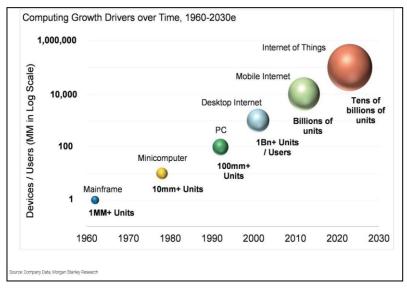
 The IoT is forecast to be bigger than the mobile internet and desktop markets

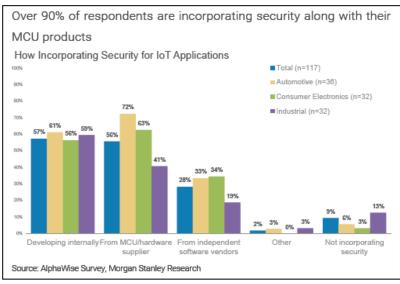
"We believe nearly every single industry will eventually migrate to an IoT model yielding 50 billion connected devices by 2020."

Needham & Company, November 27, 2015

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







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



### **Secure Programming Center Premise**

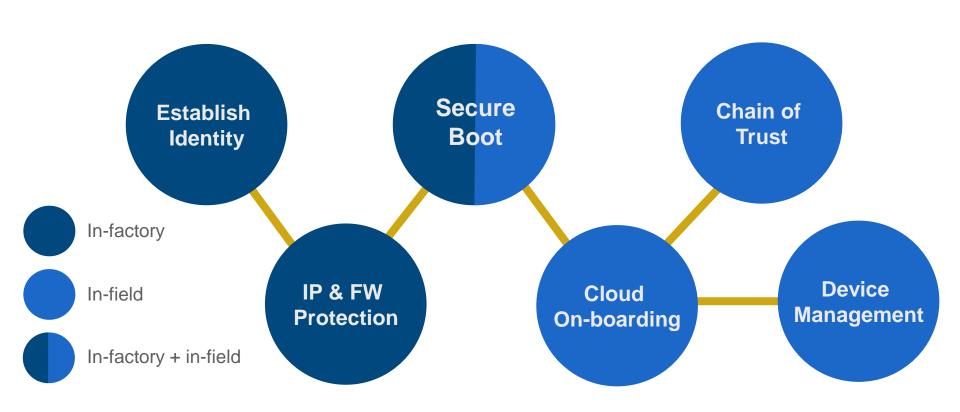


Best of Show with Embedded Award for the SentriX Security Provisioning Platform



## **Leading SentriX Enabled Use Cases**





## Flexible Data and Security Solutions



- At programming center or factory
- 30 minute changeover
- No minimum order quantity
- Low to high volume flexibility
- Robust security

Silicon Chip Pre-programming



## Flexibility

- Low throughput
- Custom software
- Large threat surface
- Keys exposed in manufacturing
- Long Lead times

In System
Programming
(end of factory line test)

- High minimum order quantity
- Low configurability
- Long lead time—up to 3 months
- Strong security

Wafer Level Programming (at semi vendor)

Security

### **SentriX** Benefits



### Cost effective and scalable

Integrated with Data I/O automated high-volume programmers

Secure provisioning as-a-Service up to 1,000 parts per hour

### Supply chain flexibility

Deployed at leading distributors and programming centers

Easily deployed at individual factory or contract manufacturing facilities

### High security deployment

Integrated FIPS 140 hardware security module (HSM)

Uses public key infrastructure (PKI) and offers certificate authority (CA) choice

### **Protects IP**

Air gapped and works offline

Works with encrypted firmware





## **New Partnerships for Growth**







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

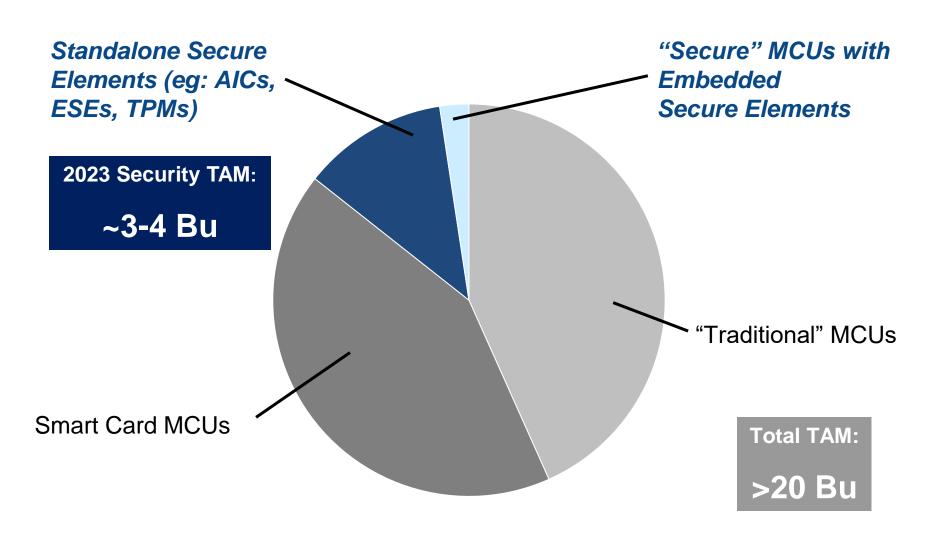
SECURE CONNECTIONS FOR A SMARTER WORLD

RENESAS

- Deployment in October 2017 of first SentriX Security System; 5 deployed at 3/31/20
- Momentum with additional industry support announcements since 2018
- Revenue Recognition: scaling begins 2020/21 with multiyear ramp from win to revenue

# The Opportunity: Billions of Security Enabled Devices



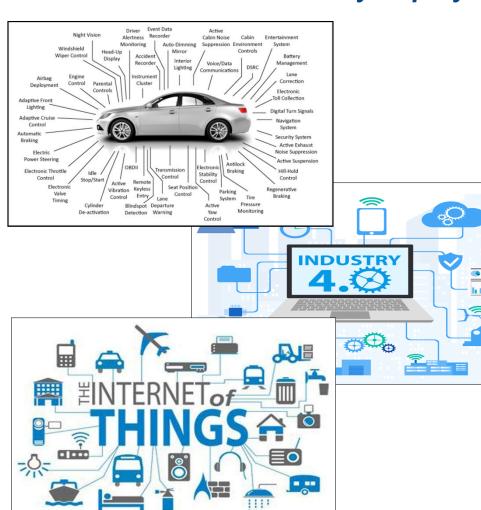


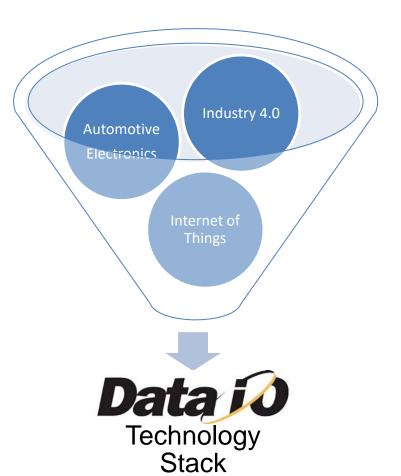
Source: ABI Research

## **The Long Term Opportunity**



# Convergence of Microcontroller Programming and Security Deployment Solutions





## **Immediate Term – COVID-19**



- Protecting our team and facilities
- Quick transition of global work from home for 85% of employees
- Tools for global collaboration
- Strict policies for the health and safety of our essential workers
- Continue to serve our customers as an essential supplier
  - Remote install & diagnostics capability keep our customer factories running
  - Quick deploy program for new medical device customers; retool production to support COVID-19 efforts
  - Securing new devices & systems against hacking
- Strong financial condition bolstered by expense management





## **Financial Overview**

## **Financial Overview**



## First Quarter 2020 Highlights

- Net sales of \$4.8 million; bookings of \$4.3 million
- Gross margin as a percentage of sales of 58.2%
- Net loss of (\$554,000) or (\$0.07) per share
- Adjusted earnings before interest, taxes, depreciation and amortization (EBITDA)\*, excluding equity compensation, of (\$110,000)
- Cash & Equivalents of \$13.8 million; no debt
- Automotive electronics, advanced programming and secure provisioning leadership
  - Automotive Electronics represented 55% of first quarter 2020 bookings
  - New distribution partnership with NOA Leading Co., Ltd. in Japan
  - Three new automotive wins in the quarter in Asia, Americas and Europe
  - Growth in SentriX® devices provisioned, device types supported, and design wins

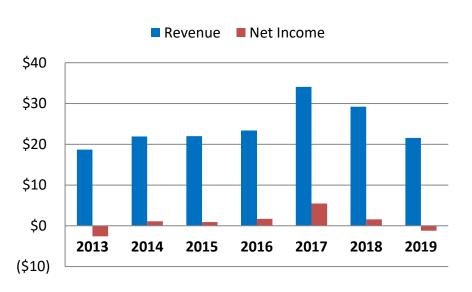
<sup>\*</sup> Adjusted EBITDA is a non-GAAP financial measure. A reconciliation is provided in the Appendix section of this presentation.

## **Operational Performance**



## Long Term Performance Improvements & Resiliency Through Innovation and Operational Excellence

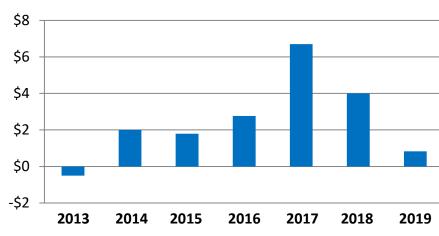
### **Revenue and Net Income (\$M)**



### **Long Term Growth Drivers**

- · Semi-cap equip. cycle
- Automotive Electronics
- Internet-of-Things
- · Recurring revenues from installed base
- SentriX revenues (ramping in 2020/21)

### Adjusted EBITDA (\$M)



EBITDA adjusted for restructuring charges and stock-based compensation

### **Near Term Growth Catalyst**

- Down cycle now more than 2 years old
- New norms for COVID-19 require more smart devices, increased memory, IoT demands, security
- Reinvestment in capital equipment

# **Balance Sheet and Capital Structure Overview**



### **Balance Sheet Highlights**

### At March 31, 2020:

- \$13.8 million in cash and cash equivalents
- No debt
- \$18.4 million of net working capital
- Total stockholders' equity of \$21.0 million, or approx. \$2.56 per diluted share outstanding
- EV/Sales at 0.6x<sup>(3)</sup>
- NOLs of approximately \$13.0 million

### **Enterprise Value** (\$K)

Market Cap <sup>(1)</sup>	\$ 25,000
Plus Total Debt <sup>(2)</sup>	0
Less Total Cash <sup>(2)</sup>	<u>\$ 13,800</u>
Enterprise Value	\$ 11,200
Diluted Shares Outstanding <sup>(2)</sup>	8,200,000

<sup>(1)</sup> At 5/1/20; Source: Yahoo

### **Balance Sheet Strategy**

- Important to maintain strong balance sheet in a cyclical industry, with about 60% of revenues from capital equipment sales
- Financial flexibility allows the company to:
  - Withstand, and advance during, downturns in semi cycle and COVID-19
  - Invest in organic and acquisitive growth opportunities for the long term
  - Develop recurring revenue streams
- \$2 million buyback completed in quarter ended 9/30/19
- Approx. \$8.1 million returned to shareholders from buybacks authorized in '12, '16 and '18

<sup>(2)</sup> At 3/31/20

<sup>(3)</sup> Sales based on TTM through 3/31/20 financial results

## **Capital Equipment to Recurring Revenue**



### **Capital Equipment**

- Approx. 65% of 2019 sales; 54% in 1Q20
- 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

### **Consumables**

### **Adapters**



- Approx. 28% of 1Q20 sales
- Usually last 3-24 months

### **Software and Maintenance**

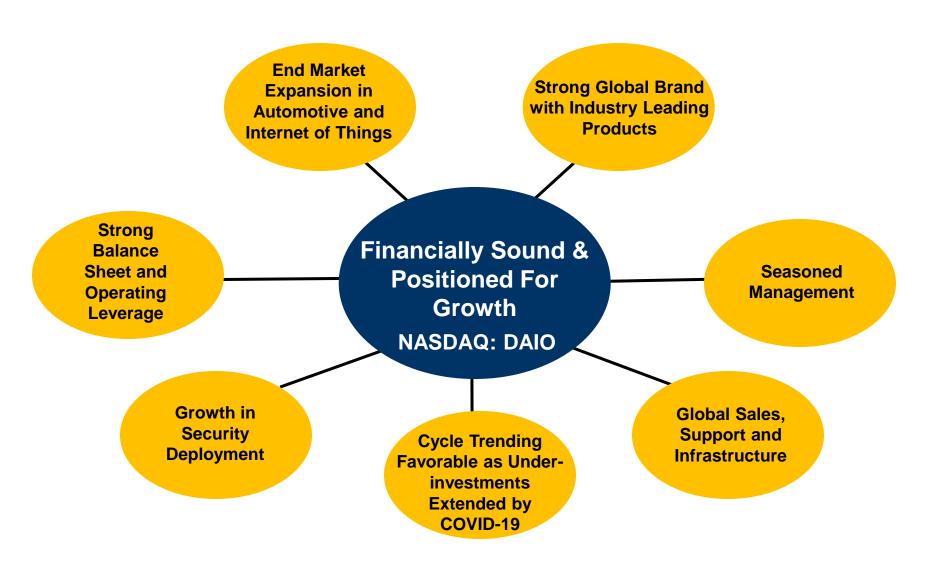


- Approx. 18% of 1Q20 sales
- Annual software upgrades

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

# 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**

## Adjusted EBITDA Reconciliation – 1Q20



### NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Months Ended March 31,		
	2020	2019	
(in thousands)			
Net Income(loss)	(\$554)	\$26	
Interest (income)	(8)	(12)	
Taxes	5	(29)	
Depreciation and amortization	198	204	
EBITDA earnings(loss)	(\$359)	\$189	
Equity compensation	249	287	
Adjusted EBITDA earnings(loss),			
excluding equity compensation	(\$110)	\$476	

## **Income Statement – 1Q20**



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

Three	Months	Ended
	March 3	1.

	iviaici	1 J I,
	2020	2019
Net Sales	\$4,785	\$6,058
Cost of goods sold	2,001	2,373
Gross margin	2,784	3,685
Operating expenses:		
Research and development	1,582	1,681
Selling, general and administrative	1,811_	1,975
Total operating expenses	3,393	3,656
Operating income(loss)	(609)	29
Non-operating income:		
Interest income	8	12
Gain on sale of assets	-	60
Foreign currency transaction gain		
(loss)	52	(104)
Total non-operating income	60	(32)
Income(loss) before income taxes	(549)	(3)
Income tax (expense) benefit	(5)	29
Net income(loss)	(\$554)	\$26
Basic earnings(loss) per share	(\$0.07)	\$0.00
Diluted earnings(loss) per share	(\$0.07)	\$0.00
Weighted-average basic shares	8,219	8,303
Weighted-average diluted shares	8,219	8,417

## Balance Sheet - 1Q20



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

(UNAUDITED)	Manual 24	D
	March 31, 2020	December 31, 2019
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$13,814	\$13,936
Trade accounts receivable, net of allowance for		
doubtful accounts of \$79 and \$80, respectively	3,107	4,099
Inventories	4,804	5,020
Other current assets	1,709	924
TOTAL CURRENT ASSETS	23,434	23,979
Property, plant and equipment – net	1,813	1,668
Income tax receivable	-	640
Other assets	1,850	1,994
TOTAL ASSETS	\$27,097	\$28,281
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$1,072	\$1,151
Accrued compensation	1,214	1,541
Deferred revenue	1,421	1,387
Other accrued liabilities	1,286	1,372
Income taxes payable	28	31
TOTAL CURRENT LIABILITIES	5,021	5,482
Operating lease liabilities	1,045	1,178
Long-term other payables	67	91
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, 8,221,447 shares as of March 31,		
2020 and 8,212,748 shares as of December 31, 2019	19,001	18,748
Accumulated earnings	1,954	2,508
Accumulated other comprehensive income	9	274
TOTAL STOCKHOLDERS' EQUITY	20,964	21,530
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$27,097	\$28,281

## **Adjusted EBITDA Reconciliation – 2019**



### NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Months Ended  December 31,			Months Ended ember 31,	
	2019	2018	2019	2018	
(in thousands)					
Net Income(loss)	(\$496)	\$648	(\$1,187)	\$1,606	
Interest (income)	(6)	(11)	(53)	(37)	
Taxes	(21)	24	31	291	
Depreciation and amortization	196	219	868	955	
EBITDA earnings(loss)	(\$327)	\$880	(\$341)	\$2,815	
Equity compensation	260	298	1,171	1,230	
Adjusted EBITDA earnings(loss), excluding equity compensation	(\$67)	\$1,178	\$830	\$4,045	

## **Income Statement – 2019**



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

	Three Months Ended  December 31,		Twelve Months Ended December 31,	
	2019	2018	2019	2018
Net Sales	\$5,868	\$7,857	\$21,568	\$29,224
Cost of goods sold	2,588	3,284	9,018	11,868
Gross margin	3,280	4,573	12,550	17,356
Operating expenses:	-,	,	,	,
Research and development	1,583	1,811	6,451	7,361
Selling, general and administrative	2,039	2,018	7,377	8,257
Total operating expenses	3,622	3,829	13,828	15,618
Operating income(loss)	(342)	744	(1,278)	1,738
Non-operating income:				
Interest income	6	11	53	37
Gain on sale of assets	4	15	64	19
Foreign currency transaction gain (loss)	(185)	(98)	5_	103
Total non-operating income	(175)	(72)	122	159
Income(loss) before income taxes	(517)	672	(1,156)	1,897
Income tax (expense) benefit	21	(24)	(31)	(291)
Net income(loss)	(\$496)	\$648	(\$1,187)	\$1,606
Basic earnings(loss) per share	(\$0.06)	\$0.08	(\$0.14)	\$0.19
Diluted earnings(loss) per share	(\$0.06)	\$0.08	(\$0.14)	\$0.19
Weighted-average basic shares	8,212	8,431	8,247	8,378
Weighted-average diluted shares	8,212	8,509	8,247	8,514

## **Balance Sheet – 2019**



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

(UNAUDITED)	December 31, 2019	December 31, 2018
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$13,936	\$18,343
Trade accounts receivable, net of allowance for		
doubtful accounts of \$80 and \$75, respectively	4,099	3,771
Inventories	5,020	5,185
Other current assets	924	621
TOTAL CURRENT ASSETS	23,979	27,920
Property, plant and equipment – net	1,668	1,985
Income tax receivable	640	598
Other assets	1,994	220
TOTAL ASSETS	\$28,281	\$30,723
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$1,151	\$1,755
Accrued compensation	1,541	2,872
Deferred revenue	1,387	1,392
Other accrued liabilities	1,372	789
Income taxes payable	31	47
TOTAL CURRENT LIABILITIES	5,482	6,855
Operating lease liabilities	1,178	-
Long-term other payables	91	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, 8,212,748 shares as of December 31,		
2019 and 8,338,628 shares as of December 31, 2018	18,748	19,254
Accumulated earnings	2,508	3,695
Accumulated other comprehensive income	274	408
TOTAL STOCKHOLDERS' EQUITY	21,530	23,357
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$28,281	\$30,723

## **Financial Overview**



## Fourth Quarter and Full Year 2019 Highlights

- Net sales of \$21.6 million; bookings of \$22.5 million
- Gross margin as a percentage of sales of 58.2%
- Net loss of (\$1.2) million or (\$0.14) diluted earnings per share. Adjusted earnings before interest, taxes, depreciation and amortization (EBITDA)\*, excluding equity compensation, of \$830,000
- Automotive Electronics represented 60% of bookings for 2019
- Repurchased 302,000 shares in 2019 (404,00 shares in total) to complete \$2 million buyback authorized in October 2018
- Ended year with 5 system deployments, 12 partners and 10 supported devices for SentriX secure provisioning platform