

Data I/O Corporation September 2019 Investor Presentation

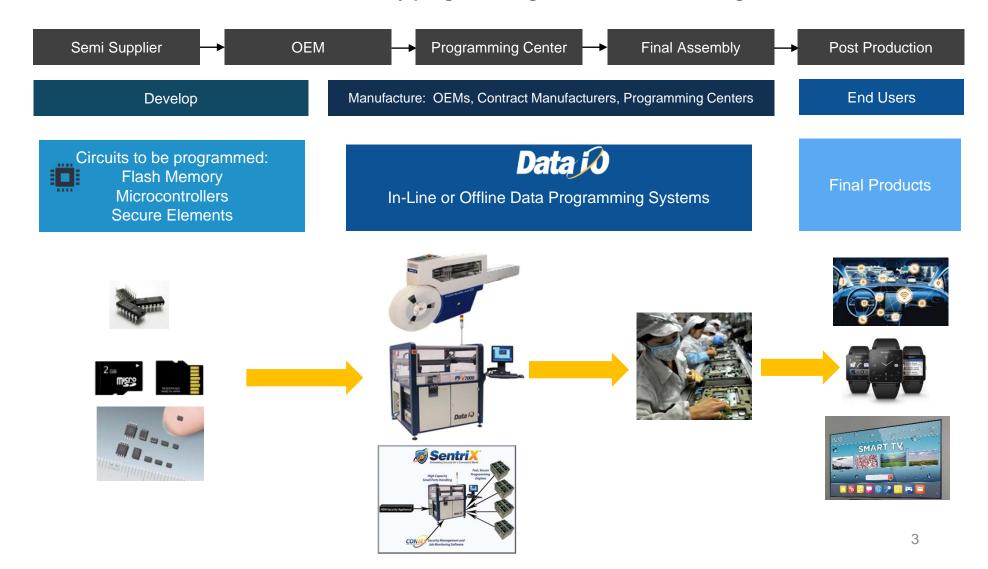


The matters that we discuss today will include forwardlooking statements that involve risks factors that could cause Data I/O Corporation's results to differ materially from management's current expectations. We encourage you to review the Safe Harbor statement contained in the earnings release as well 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
 - o 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
- Puget Sound Business Journal's Fastest Growing Public Technology Companies list – 3 consecutive years
- Industry and technology awards for Lumen®X, Universal Flash Storage (UFS), PSV Lines and SentriX[™]
- Over 250 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 approved in 4Q18

NASDAQ:	DAIO
Headquarters:	Redmond, WA
Established:	1972
Stock Price:	\$4.00
Market Cap:	\$33M
Diluted Shares:	8.3M
10-Day Avg. Volume:	25,000 shares
Sales (TTM):	\$26.3M
Net Income (TTM):	\$1.1M
Diluted EPS (TTM):	\$0.14
Adj. EBITDA ⁽³⁾ (TTM):	\$3.4M
Cash & Sec. (6/30/19):	\$15.2M (\$1.84/share)
Debt (6/30/19):	\$0.0

(1) Stock price, market cap and volume as of 8/16/19; Source: Yahoo

- (2) Financials for the TTM period ended 6/30/19 or as noted
- (3) Adj. EBITDA is a non-GAAP financial measure. A reconciliation is provided in this presentation

Strategic Objectives



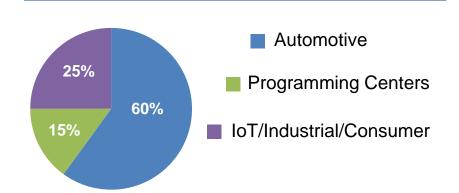
Long Term Growth Focus

- Growth strategy focused on advanced data and security programming 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 Provisioning Platform
- Deploying excess 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 Provisioning Platform technology for Internet of Things applications
 - Introduced Universal Flash Storage (UFS) solution and SentriX[™] Security Provisioning 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 for New **Job Composer** Software Application



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



Doubles Programming Performance w/ TurboBoost™ for Programmers **LUMEN**

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 via Data I/O's SentriX® Secure Provisioning System





Financial Overview

Financial Overview



Second Quarter 2019 Highlights

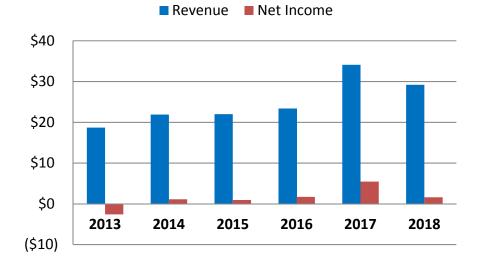
- Net sales of \$5.8 million; bookings of \$5.1 million
- Gross margin as a percentage of sales of over 61%
- Net income of \$127,000 or \$0.02 diluted earnings per share
- Adjusted EBITDA*, excluding equity compensation, of \$728,000
- Cash & Equivalents of \$15.2 million; no debt
- Auto. electronics, advanced programming and secure provisioning leadership
 - Automotive represented 56% of bookings year to date through 2Q19
 - Appointed Michael Tidwell as VP Marketing and Business Development
 - Assembly Products LLC expands sales in NY/New England region of USA
 - Embedded Technologies Conference speaking engagements included Managed & Secure Programming for the Automotive World
 - NXP SE050 Secure Element marks 4th NXP product support by SentriX^{®™}
 - Ended 2Q19 with 12 partners, 5 system deployments for SentriX system
- Repurchased 188,000 shares as part of \$2 million buyback authorized 10/2018

Operational Performance

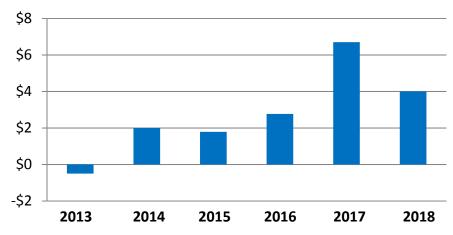


Long Term Performance Improvements through Innovation and Operational Excellence

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



Balance Sheet Highlights

At June 30, 2019:

- \$15.2 million in cash and cash equivalents
- No debt
- \$19.5 million of net working capital
- Total stockholders' equity of \$22.7 million, or approx. \$2.75 per diluted share outstanding
- EV/Sales at 0.7x⁽³⁾
- EV/Adjusted EBITDA at 5.2x⁽³⁾
- NOLs of approximately \$13.0 million

Enterprise Value (\$K)

Market Cap ⁽¹⁾	\$ 33,000
Plus Total Debt ⁽²⁾	0
Less Total Cash ⁽²⁾	<u>\$ 15,200</u>
Enterprise Value	\$ 17,800
Diluted Shares Outstanding ⁽²⁾	8,300,000

(1) At 8/16/19; Source: Yahoo

(2) At 6/30/19

⁽³⁾ Sales and Adjusted EBITDA based on TTM through 6/30/19 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
 - o Develop recurring revenue streams
- \$2 million buyback approved in 4Q18. \$1.8 million for purchase of 348,000 shares through 6/30/19
- 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

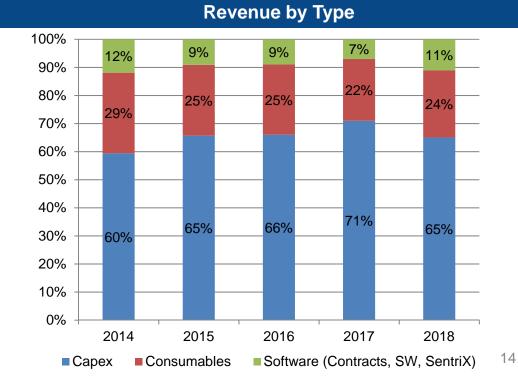
- Approx. 24% of 2018 sales
- Usually last 3-24 months

Consumables

Software and Maintenance



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



Mix Shift in Revenues

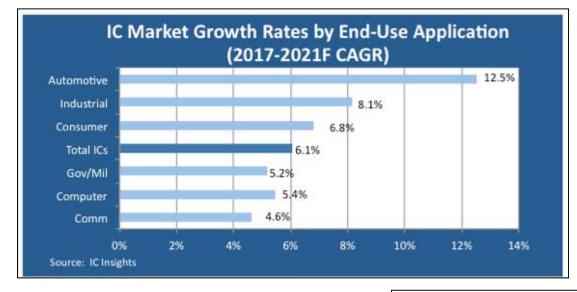
- SentriX drives strategy shift toward consumable and recurring revenues over time
- SentriX revenue for security provisioning & programming is recurring
- Lower % capital equipment sales reduces cyclicality



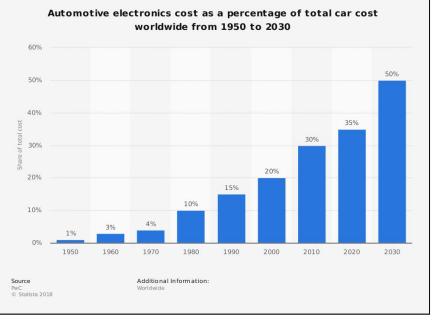
Market Outlook

Automotive & Industrial Semi Growth Drives Programming Market





Automotive & Industrial continue to be fastest growing segments



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Automotive Electronics Evolution



Addressing Macro Trends in Automotive

Visteon



Cockpit of the Future

Visteon



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

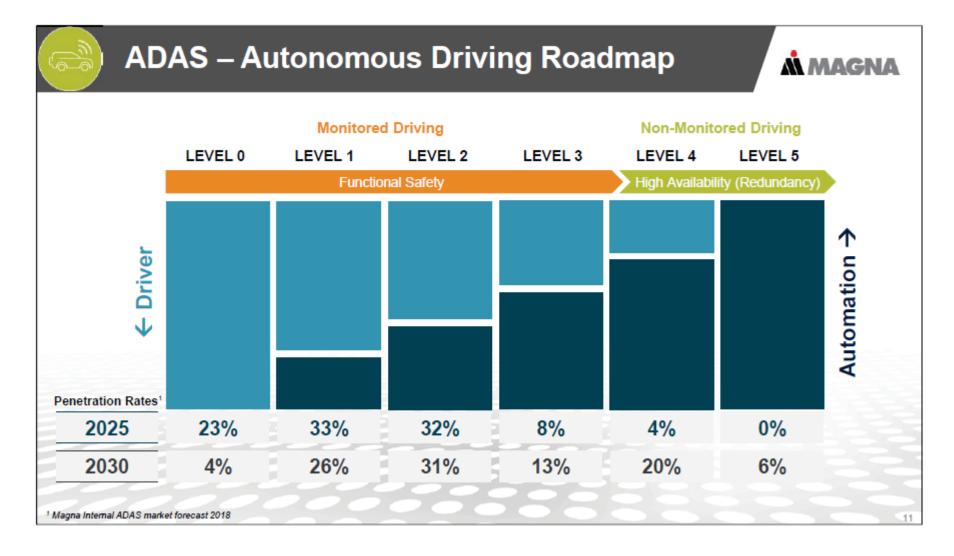
- · Conversational cockpit assistant
- Natural language voice interaction





ADAS Penetration Over Time

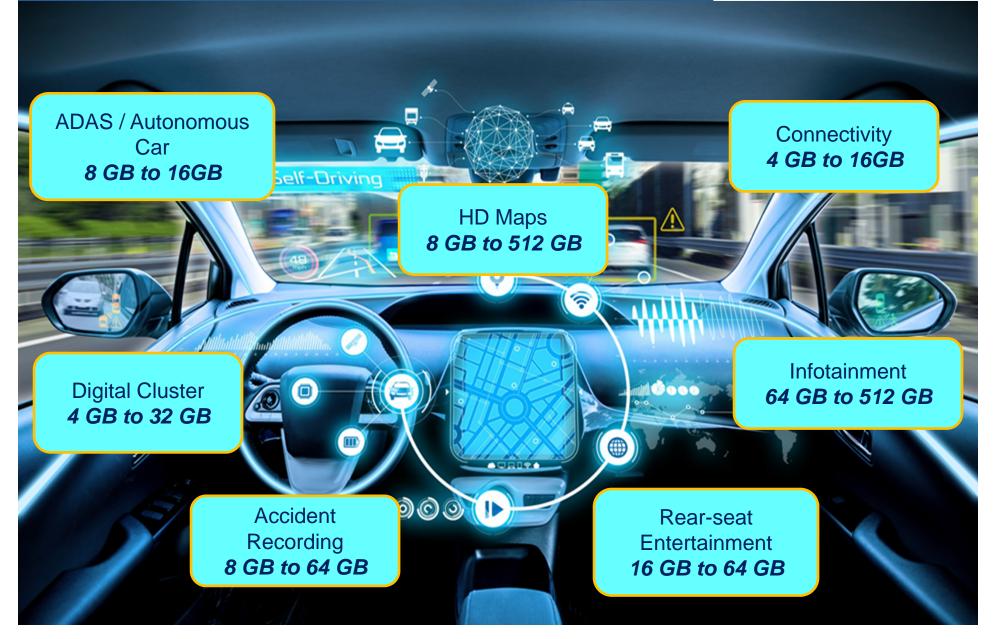




Substantial Growth in Electronics Subsystems Well Before Fully Autonomous Driving

FLASH Memory Growth in the Connected and Autonomous Vehicle





Automotive is Moving to UFS FLASH



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

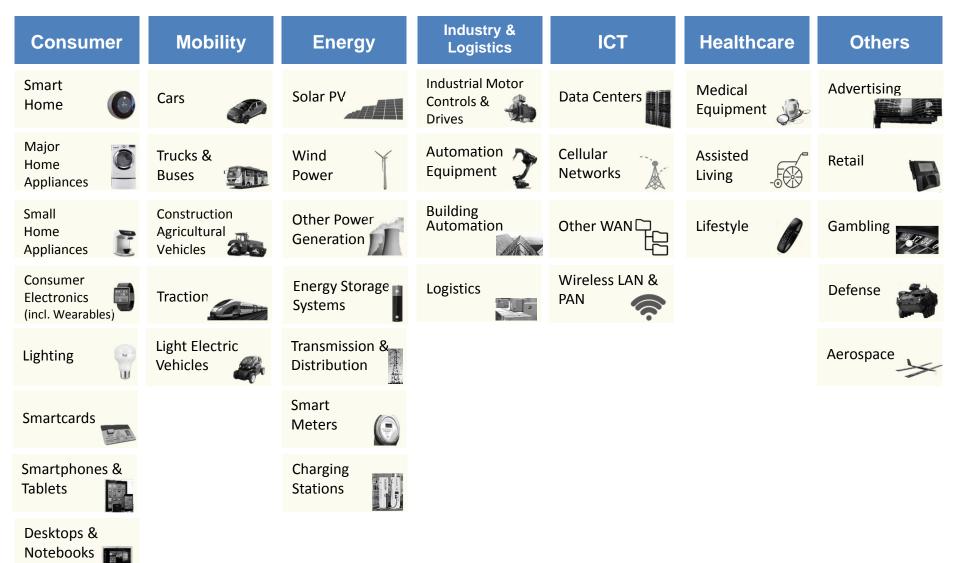




Maximum Performance Maximum Flexibility Investment Protection for Customers

IoT Market Segmentation

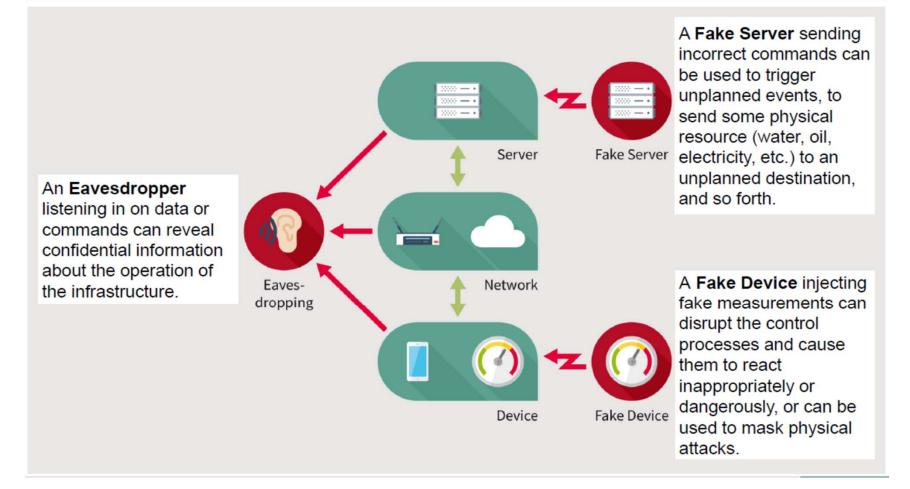




IoT Device Security Threats



Security threats for IoT



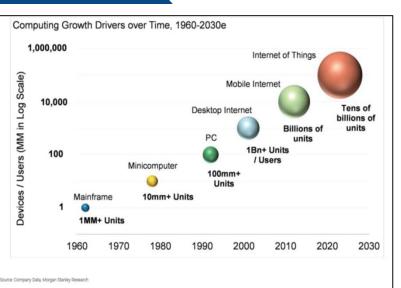
IoT Market Drivers -Multi-year Secular Growth

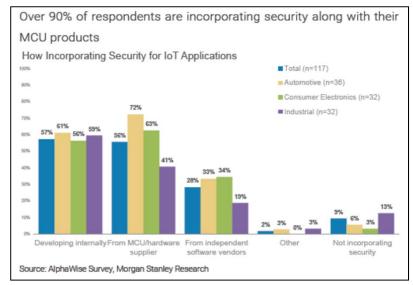
 The IoT is forecast to be bigger than the mobile internet and desktop markets

"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[™] Security Provisioning Platform





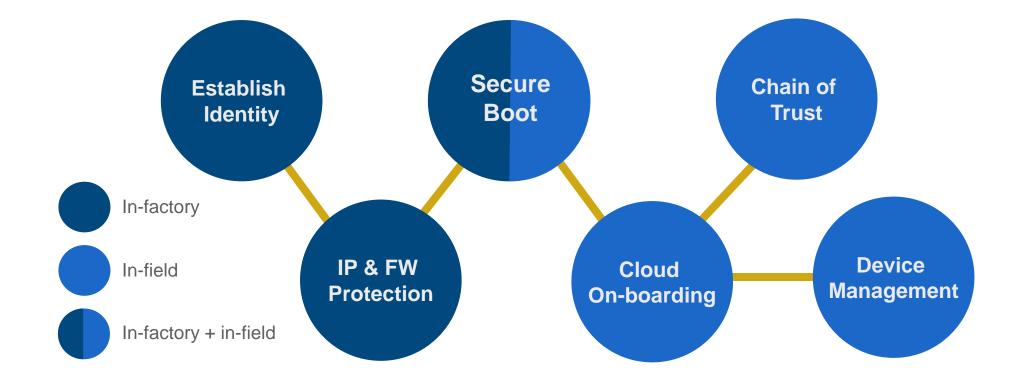
Exhibition&Conference

it's a smarter world

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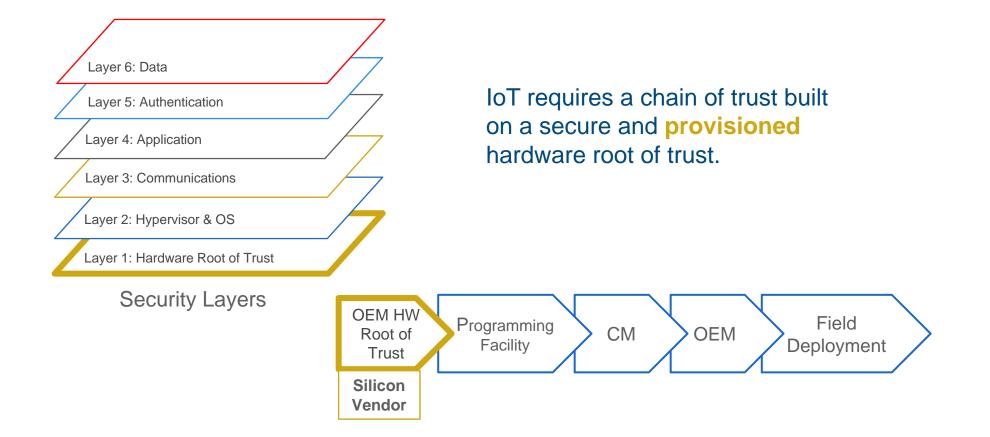
Leading SentriX Enabled Use Cases





Security By Design





New Partnerships for Growth



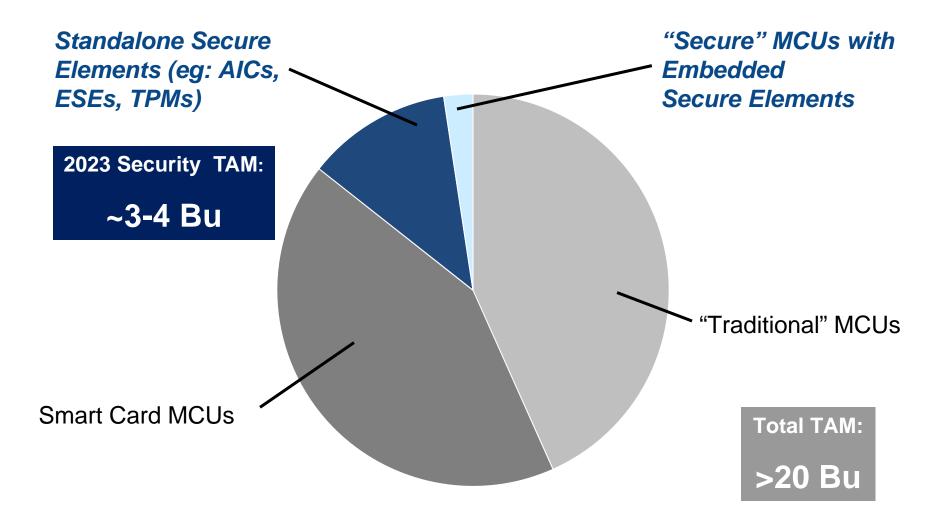


SentriX Plan: Securing IoT Devices for OEMs of any Size and Volume

- Deployment in October 2017 of first SentriX Security Provisioning System; 5 deployed at 6/30/19
- Additional Industry support announcements from 2018 through 2019
- Revenue Recognition: scaling begins 2019 with multiyear ramp from win to revenue

The Opportunity: Billions of Security Enabled Devices

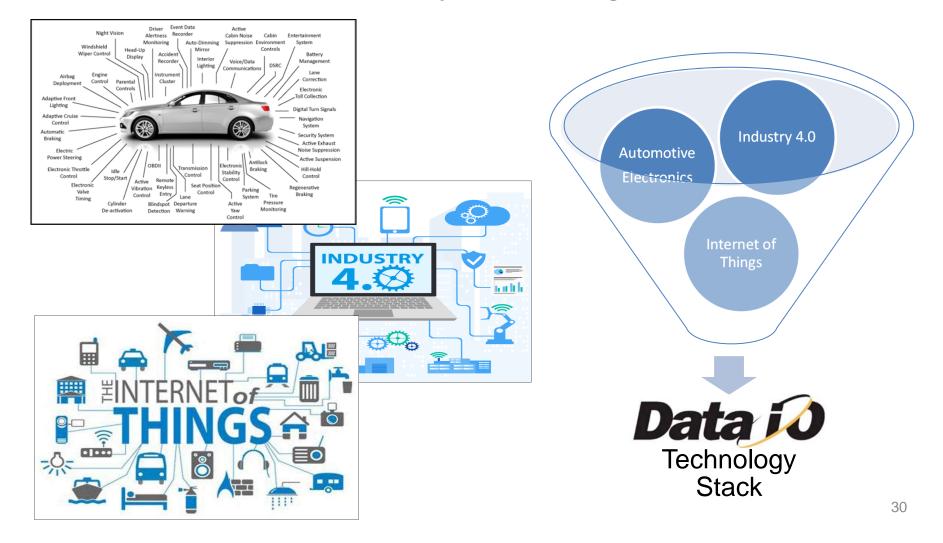




The Long Term Opportunity



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



Appendix

Adjusted EBITDA Reconciliation – 2Q19



NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Months Ended June 30,		Six Months Ended	
			June 30,	
	2019	2018	2019	2018
(in thousands)				
Net Income	\$127	\$486	\$153	\$616
Interest (income)	(10)	(9)	(22)	(16)
Taxes	27	42	(2)	87
Depreciation and amortization	220	277	424	506
EBITDA earnings	\$364	\$796	\$553	\$1,193
Equity compensation	364	473	650	650
Adjusted EBITDA earnings,				
excluding equity compensation	\$728	\$1,269	\$1,203	\$1,843

Income Statement – 2Q19



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

	Three Mon	ths Ended	Six Month	is Ended
	June 30,		June 30,	
	2019	2018	2019	2018
Net Sales	\$5,834	\$7,204	\$11,892	\$14,834
Cost of goods sold	2,250	2,955	4,623	6,169
Gross margin	3,584	4,249	7,269	8,665
Operating expenses:				
Research and development	1,680	1,845	3,361	3,724
Selling, general and administrative	1,829	2,158	3,803	4,351
Total operating expenses	3,509	4,003	7,164	8,075
Operating income	75	246	105	590
Non-operating income:				
Interest income	10	9	22	16
Gain on sale of assets	-	4	60	4
Foreign currency transaction gain				
(loss)	69	269	(36)	93
Total non-operating income	79	282	46	113
Income before income taxes	154	528	151	703
Income tax (expense) benefit	(27)	(42)	2	(87)
Net income	\$127	\$486	\$153	\$616
Basic earnings per share	\$0.02	\$0.06	\$0.02	\$0.07
Diluted earnings per share	\$0.02	\$0.06	\$0.02	\$0.07
Weighted-average basic shares	8,257	8,356	8,280	8,321
Weighted-average diluted shares	8,332	8,500	8,375	8,521

Balance Sheet – 2Q19



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

, , , , , , , , , , , , , , , , , , ,	June 30, 2019	December 31, 2018
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$15,165	\$18,343
Trade accounts receivable, net of allowance for		
doubtful accounts of \$72 and \$75, respectively	3,812	3,771
Inventories	5,218	5,185
Other current assets	618	621
TOTAL CURRENT ASSETS	24,813	27,920
Property, plant and equipment – net	1,953	1,985
Income tax receivable	640	598
Other assets	2,284	220
TOTAL ASSETS	\$29,690	\$30,723
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$1,006	\$1,755
Accrued compensation	1,415	2,872
Deferred revenue	1,365	1,392
Other accrued liabilities	1,451	789
Income taxes payable	35	47
TOTAL CURRENT LIABILITIES	5,272	6,855
Operating lease liabilities	1,532	-
Long-term other payables	157	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, 8,261,702 shares as of June 30,		
2019 and 8,338,628 shares as of December 31, 2018	18,463	19,254
Accumulated earnings	3,848	3,695
Accumulated other comprehensive income	418	408
TOTAL STOCKHOLDERS' EQUITY	22,729	23,357
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$29,690	\$30,723

Adjusted EBITDA Reconciliation – 2018



NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Months Ended December 31,		Twelve Mont Decemb	
	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

Income Statement – 2018



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
TOTAL ASSETS	\$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
 - 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
 - o 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)
 - 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