



GSI TECHNOLOGY

High Performance Components for Leading-Edge Technology

SAFE HARBOR

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EVOLUTION OF OUR BUSINESS

- Market-leading provider of innovative performance memory for 20+ years
- Gross margin increased 1,200 bps in past four years as legacy markets have compressed
- Future products pivot to new growth markets
 - Rad-Hard launch for Aerospace in 1Q CY 2018 – high ASP, high margin
 - Late CY 2018 anticipated launch of in-place associative computing (APU) technology for Al and machine learning applications

Global machine learning market forecast to grow at CAGR of 44.1% by 2020*

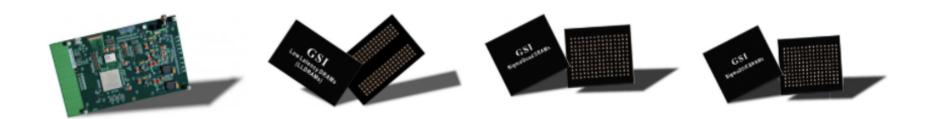
SOLO B 2020 \$1.4 B 2017

^{*} Source: three year CAGR, MarketsandMarkets™, September 2017



HIGH PERFORMANCE CULTURE

- Largest, high performance memory product portfolio
- Core competency in Very Fast SRAM and LLDRAM
- Fabless manufacturing and master die design model
- Top networking, military, medical, and automotive customers
- Focused team with culture of continuous innovation



GSI memory products feature very high transaction rates, high density, low latency, high bandwidth, fast clock access times, and low power consumption

ROBUST BUSINESS MODEL

- Coming off of an investment cycle
 - \$5 million for APU technology acquisition in CY 2015
 - \$36 million legal fees
 - Purchased HQ building in Sunnyvale, CA
- Achieved gross margin improvement on revenue contraction
- 38 consecutive quarters of profitability until 4Q FY13
- Profitability impacted by R&D, increased to \$4 million per quarter in CY 2017 for APU development
- \$61 million of common stock repurchased year-to-date

SUMMARY BALANCE SHEET

(\$ in millions)	FY 2018 Q2 09/30/2017	FY 2017 Q4 03/31/2017
Cash	\$37.4	\$33.7
Short Term Investments	\$12.2	\$16.2
Long Term Investments	\$14.6	\$12.9
Debt	\$ 0.0	\$ 0.0

REVENUE & GROSS MARGIN PERFORMANCE





STRONG CORE COMPETENCIES

REVENUE GROWTH DRIVERS: SIGMAQUAD™ SIGMADDR™

- Switches, routers and base stations
- Broadest product offering across product categories
- Best industry performance

NEXT GEN SRAM (3RD AND 4TH GENERATION)

- Fastest off-the-shelf SRAM on market
- Higher reliability
- Lower power consumption
- Higher ASP and gross margin contribution

BEST IN CLASS CAPABILITIES

- Performance leader across broadest product availability
- SigmaQuad[™] SRAMs acknowledged leader in industry for capacity, performance, and unequaled transaction rates
- LLDRAM performance unmatched by commodity DRAM



BEST-IN-CLASS CAPABILITIES

INNOVATION LEADERSHIP

- SQIVe: Fastest SRAM in the market
- SQIIIe: High-end ECC SRAM
- Sole supplier of monolithic 288Mb SQ
- Sole supplier of monolithic 144Mb S.B. and NBT
- Sole supplier: 1.8 V
 9Mb/18Mb/36Mb/72Mb/
 144 Mb synch SRAM

ADVANCED PROCESS TECHNOLOGY

- TSMC technology partner:
 - 0.13 micron copper
 - 300mm wafers
- 90nm for legacy products
- 65nm workhorse since 2010
- 40nm devices increasing gross margin
- 28nm will be used for In-Place Associative Processor (APU)



HIGHLY CAPITAL EFFICIENT

- Highly efficient business model fabless manufacturer and master die production solution
- Primary uses of capital have been share repurchase and R&D investment for APU product development

SHARE REPURCHASE

- To date returned \$60.6 million in capital to stockholders through 12 million share repurchase
- Outstanding Board authorization to purchase up to an additional \$4.4 million

R & D INVESTMENT

- \$4 million per quarter since CY 2017
- Quarterly R&D spend will continue at this level through CY 2018
- Developing software libraries and hardware design

EFFICIENT MANUFACTURING PLATFORM

Master Die Design Model Beneficial to GSI and Customers

27 BASIC PRODUCT DESIGNS LEVERAGED TO CREATE
> 16,000
INDIVIDUAL
PRODUCTS

GSI BENEFITS

- More profitable cost structure
- Leverage R&D resources
- Enhanced inventory management
- Address total available market



OEM BENEFITS

- Reduced lead times
- Long product life availability
- Lower qualification costs

RETURNING TO GROWTH

- Leveraging core competencies in design and manufacturing to enter new product categories
- Two launches over next 12 months of high-growth, high margin product
- 4Q CY 2018 launch of SigmaQuad radiation-hardened (Rad-Hard)
 SRAM will improve top line and gross margin
- Anticipated late CY 2018 release of APU for AI and machine learning opens large, new markets with high-profile customers

Anticipate top-line growth and continued strong gross margin in fiscal year 2019



NEW CATEGORY OPPORTUNITIES

AEROSPACE & DEFENSE: RADIATION-HARDENED (RAD-HARD) SRAM

- Leveraging SRAM capabilities into higher ASP, high gross margin product
- Capabilities and technology unique to GSI
- Launch late 4Q CY 2017

PATENTED IN-PLACE ASSOCIATIVE COMPUTING TECHNOLOGY (APU)

- Massive Parallel Processing (MPP) systems limitations in increasingly complex machine learning and natural language processing applications create an opportunity for new solution
- GSI solution has differentiated capabilities from current AI solutions
- Launch anticipated second half CY 2018



RAD-HARD AEROSPACE





PRIMARY APPLICATIONS

- High temperature and pressure
 - Satellites
 - High altitude flights

PRODUCT HIGHLIGHTS

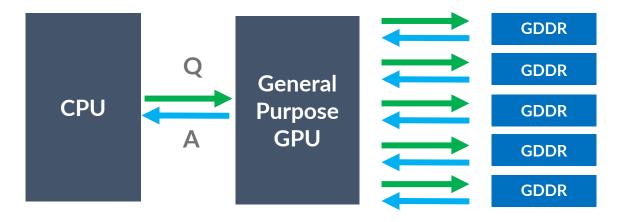
- First product 288Mb SQII+
- Second product 144M NBT/SB
- Target products:
 - 144Mb SQIV, 144M SQIII, APU
- 85% gross margin
- Started qualification process
- Ship samples 4Q CY 2017



PROCESSING CHALLENGE FOR AI

- Proliferation of AI task learning recognizing images and language translation – requires analyzing vast amounts of data
- Current solutions use graphic processing units (GPU) originally designed for video games
- Machine learning is pushing the limits for Massive Parallel Processing (MPP)

CREATES MASSIVE IO BOTTLENECK

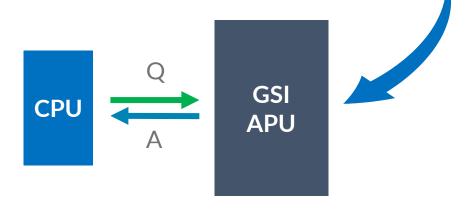


Long query response times | High power consumption and system cost



IN-PLACE ASSOCIATIVE PROCESSING

GSI SOLUTION MIMICS BRAIN BY COMPUTING IN-PLACE WITHIN APU



- Computation and search occur inside the GSI Associative Processor (APU)
- Responses provided directly by APU
- Removes IO bottleneck
- Improves performance, reducing query response times from hours to seconds
- Significantly reduces power, and reduces system cost



STRONG IP PORTFOLIO

ACQUIRED MIKAMONU GROUP, PATENT PORTFOLIO, AND IP IN CY 2015

- U.S.-based patent portfolio 16 granted and 10 pending
- Future patents will extend to China and Korea
- All related to associative processing for compute and search
- Application libraries to enable hardware functions
- Seamless integration into existing software platforms
- Applications include image processing, Big Data analytics, security, machine learning

MULTIPLE APU MARKET OPPORTUNITIES

AI - BIG DATA MARKET GROWING 30% CAGR*

 Cloud computing applications of data analytics, machine learning, SQL/NoSQL used by recommender systems, data mining, search engines and NLP













COMPUTER VISION MARKET GROWING 42% CAGR**

- Safety based automotive applications Advanced Driver Assistance Systems (ADAS) lane departure warning, collision warning, blind-spot monitoring
- Warehouse robotics, missile guidance
- Amazon, Bosch, Continental, military contractors, Mobileye (Intel)

CYBER SECURITY

- Firewall, antivirus, encryption, web filtering, IDS/IPS, DPI
- Check Point, Cisco, Fortinet, Palo Alto Networks

Sources: *Goldman Sachs; ** Tractia;



BALANCE SHEET TO FUND GROWTH

(\$ IN MILLIONS)	AS OF 09/30/2017
Liquidity: cash, cash equivalents, short-term investments and long-term investments	\$64.2
Total assets	\$101.1
Debt	\$0.0
Shareholder Equity	\$85.6
BALANCE SHEET METRICS:	
Working capital	\$56.3
Current ratio	6.9



PATH TO FUTURE GROWTH

- Leveraging leadership in performance memory chips to enter new product categories
- New products will drive top line growth and further gross margin improvement
- Return to top line growth anticiapted in second half of CY 2018 with launch of Rad-Hard
- Enter large, high growth markets in late CY 2018 with anticipated launch of in-place associative computing (APU)





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