

MagnaChip Semiconductor Presentation August 2017

### **Forward-Looking Statements**

Information in this presentation regarding MagnaChip's forecasts, business outlook, expectations and beliefs are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 that involve risks and uncertainties. All forward-looking statements included or incorporated by reference in this presentation, including expectations about estimated historical or future operating results, business strategies and plans, future growth and revenue opportunities from new and existing products and customers, expectations on capital expenditures, the timing and extent of future revenue contributions by our products and businesses, and on our the expected timing and adequacy of improvements to, and remediation of material weaknesses in, the Company's internal control environment and corporate culture, are based upon information available to MagnaChip as of the date of this report, which may change, and we assume no obligation to update any such forward-looking statements. These statements are not guarantees of future performance and actual results could differ materially from our current expectations. Factors that could cause or contribute to such differences include general economic conditions, the impact of competitive products and pricing, timely design acceptance by our customers, timely introduction of new products and technologies, ability to ramp new products into volume production, industry wide shifts in supply and demand for semiconductor products, industry and/or company overcapacity, effective and cost efficient utilization of manufacturing capacity, financial stability in foreign markets and the impact of foreign exchange rates, unanticipated costs and expenses or the inability to identify expenses which can be eliminated, compliance with U.S. and international trade and export laws and regulations by us and our distributors, and other risks detailed from time to time in MagnaChip's filings with the SEC, including our Form 10-K filed on February 21, 2017 and subsequent registration statements, amendments or other reports that we may file from time to time with the SEC and/or make available on our website. MagnaChip assumes no obligation and does not intend to update the forward-looking statements provided, whether as a result of new information, future events or otherwise. This presentation also includes references to certain non-GAAP financial measures. Management believes that non-GAAP financial measures, when viewed in conjunction with GAAP results, can provide a meaningful understanding of the factors and trends affecting MagnaChip's business and operations and assist in evaluating our core operating performance. However, such non-GAAP financial measures have limitations and should not be considered as a substitute for net income or as a better indicator of our operating performance than measures that are presented in accordance with GAAP. A reconciliation of GAAP results to non-GAAP results is included in this presentation.

### **Key Leadership**

#### **YJ Kim**



CEO Board Director

#### Jonathan Kim



CFO / CAO Executive VP

#### Young-Joon (YJ) Kim

Chief Executive Officer, Director

Mr. YJ Kim became our director and Chief Executive Officer in May 2015, after serving as our Interim Chief Executive Officer and General Manager, Display Solutions Division since May 2014 and our Executive Vice President and General Manager, Display Solutions Division starting in May 2013. He also served as the acting General Manager of our Foundry Services Group from May to November 2015. Prior to joining our company, Mr. Kim served at Cavium, Inc. since 2006, a provider of highly integrated semiconductor processors, as Vice President, Infrastructure Processor Division and General Manager of the OCTEON Multi-Core Processor Group, its largest business, from January 2010 to April 2013. Prior to Cavium, Mr. Kim served as Core Team Lead and General Manager at Intel Corporation from August 2004 to June 2006. Mr. Kim has also served as Director of Marketing at Samsung Semiconductor, Inc. in San Jose from June 1996 to May 1998. Mr. Kim holds Bachelor of Science and Master of Engineering in Electrical Engineering degrees from Cornell University.

#### **Jonathan Kim**

*Chief Financial Officer, Executive Vice President, and Chief Accounting Officer* Mr. Jonathan Kim was appointed Chief Financial Officer and Executive Vice President in May 2015, after serving as our Interim Chief Financial Officer, Chief Accounting Officer and Senior Vice President since March 2014. Prior to joining our company, Mr. Kim served since July 2010 as the Chief Financial Officer of StartForce, Inc., a VC backed desktop virtualization company, which was acquired in February 2011 by ZeroDesktop, Inc., a leading developer of next-generation desktop virtualization and cloud computing solutions. Mr. Kim continued to serve as the Chief Financial Officer at ZeroDesktop through March 2014. Mr. Kim also served as a principal at a Silicon Valley based investment and advisory firm where he led investments in startup companies in the U.S. and Korea. Mr. Kim began his career in public accounting and held various positions with Deloitte for nearly 10 years, serving Global Fortune 500 and U.S. multinational publicly traded clients. Mr. Kim holds a B.A. degree in Business Administration from the Foster School of Business at the University of Washington and is a Certified Public Accountant.

### MagnaChip – Building a Foundation for Growth With Foundry Services and Standard Products in Analog & Mixed Signal Semiconductors

### **Executive Summary**

### MagnaChip has a unique position in high growth end markets

Largest Independent Supplier of OLED Display Driver IC's and #2 Overall, as of Q2 2017

Specialty 8" Foundry with Differentiated Analog / Mixed Signal Process Technologies

> Diversified portfolio of Power products

- OLED is expected to be adopted as the standard panel for mid to high-end mobile devices
- Technology leadership; we began developing OLED IC's in 2007
- Trend towards greater use of the foundry business model by the semiconductor industry
- Efficient facilities and proven manufacturing expertise
- Focused on providing highly engineered analog and mixed signal processes (BCD, EEPROM)
- Diverse end markets including smartphones, TVs, consumer, industrial, and LED lighting

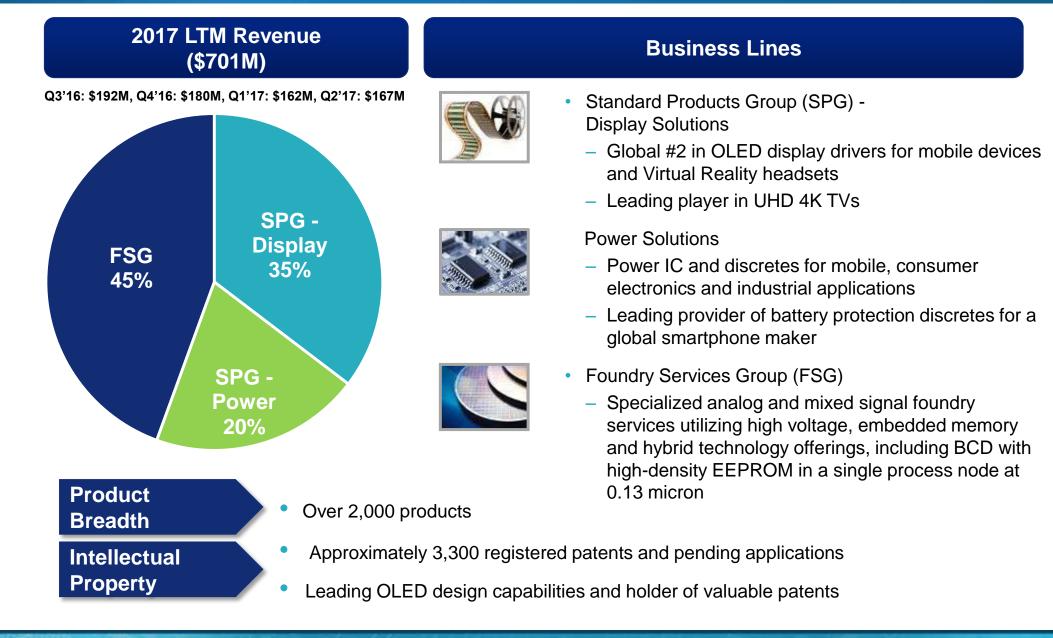
Q2'17 financial results demonstrate the successful execution of our business strategy and our ongoing commitment to improve profitability. We continue to focus on improving gross margin, overall profitability, and investing in key initiatives to fuel long-term growth.

- Q2'17 Revenue at the higher end of the guidance
- Gross margin% and Adj. EBITDA% at the highest levels in more than four years.
- Completed a voluntary headcount reduction, which is expected to generate annual cost savings of approximately \$24 million with a payback period of less than 1.5 years

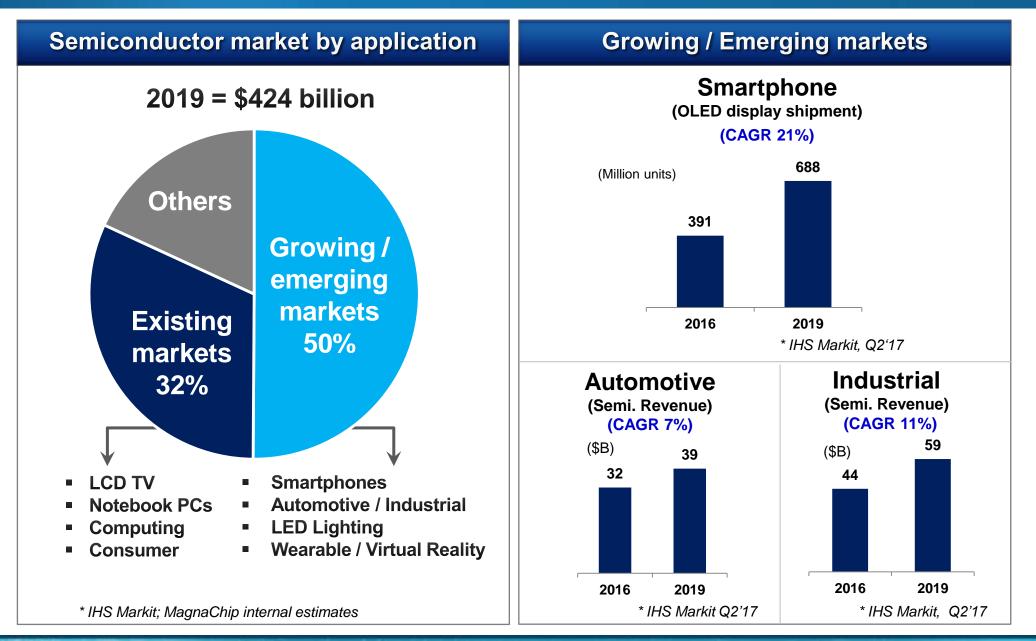
## **MagnaChip Overview**



### **Balanced Portfolio of Products and Services with Growth Opportunities in Three Business Lines**



### **Target Markets Forecast to Grow**



\*Results based on IHS Markit, Technology Group, Pure Play Foundry Market Tracker Q2 2017 and Small Medium Display Market Tracker, Q2 2017. Results are not an endorsement of MagnaChip Semiconductor. Any reliance on these results is at the third party's own risk. Visit technology.ihs.com for more details.

### In-House 8-inch Fabs + Growth from 12-inch Outsourced Foundry Relationships

#### MagnaChip's 8-inch Fabs for Foundry Services and Standard Products Group



- Two 8-inch analog/mixed signal fabs in Korea
- Proven analog and mixed signal technologies
- 484 specialized processes
- 0.11um 0.5um technology
- Approximately 113,000 8-inch wafers/month capacity

#### **Outsourced 12-inch Foundry for OLED**

- Access to significant 12" wafer capacity for our newer-generation OLED
- Foundry suppliers use our specialized OLED process design kit



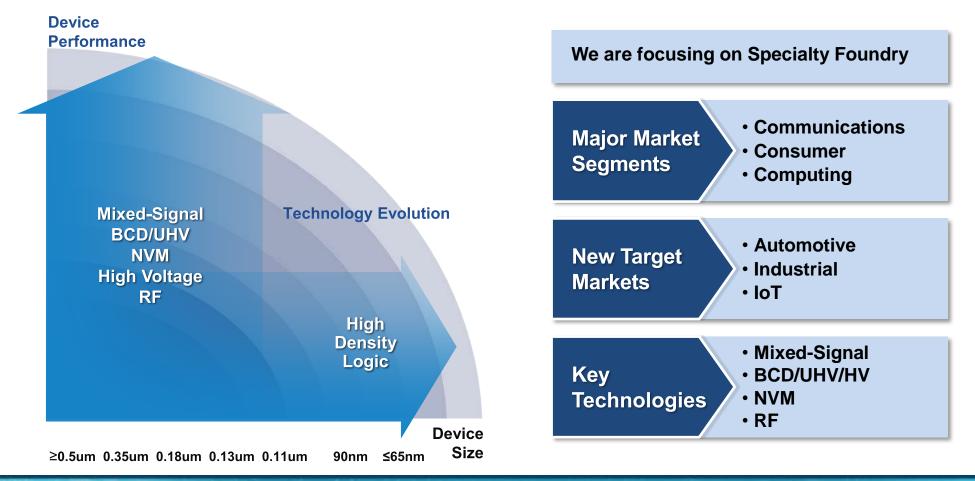
## **Foundry Services:**

Analog and Mixed Signal Processes for Global IC Customers



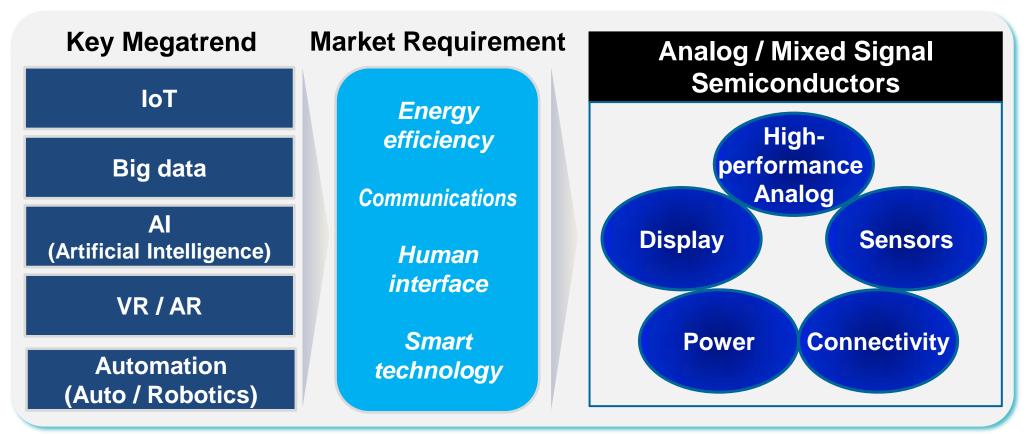
### **Foundry Services Overview**

- MagnaChip serves niche markets that emphasize engineering and analog technology expertise
  - 0.11-0.35um will remain in demand for many years; capital expenditures will be relatively low as compared to foundries in the digital segment
- We serve broad end markets including communications and IoT

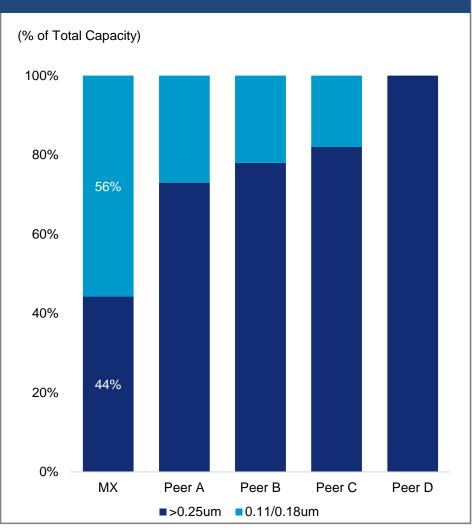


### Key Megatrends Driving Growth in Analog & Mixed Signal Products

- The growing importance of Analog and Power Management can be traced to the explosive rise of mobile devices that require low power to:
  - Extend battery life
  - Reduce heat
  - Improve product reliability
  - Conserve energy

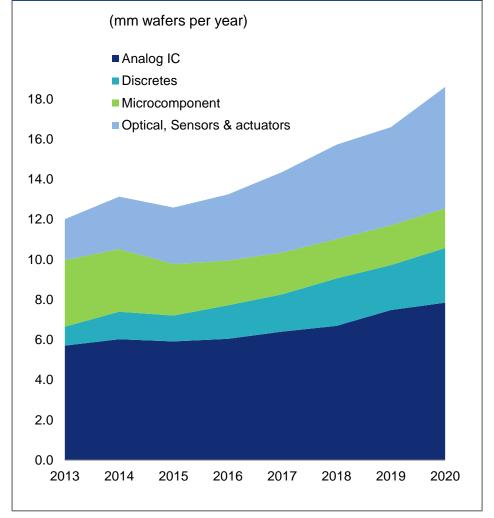


### MagnaChip's Highly Competitive Analog Process Technology in Growing Markets



#### 0.11~0.18um Technology

#### DEMAND of 0.11~0.18um for Analog & Mixed Signal



#### Source: IHS Markit; MagnaChip internal estimates

Source: IHS Markit, MX internal estimates

\*Results based on IHS Markit, Technology Group, Global Manufacturing Market Tracker, Q2 2017 and Semiconductor Silicon Market Forecast Tool, Q2 2017. Results are not an endorsement of MagnaChip Semiconductor. Any reliance on these results is at the third party's own risk. Visit technology, ihs.com for more details.

### Core Foundry Competencies: Analog Technology, Engineering Services, High Yields & Quality

#### **Specialty Analog Technology**

- Specialty analog process
  - BCD/UHV, NVM, HV CMOS, Mixed-signal & RF SOI, Sensor
- Application specific technology
- Compatibility with Foundry de facto standards

#### Value-added Engineering Services

- Customized technology offering
- Customer-friendly online foundry web interface (i-Foundry)
- Adaptation and porting of customer owned technology

#### **Manufacturing Excellence**

- Competitive cost-of-ownership solution
- Fast time to market
- High yield & quality

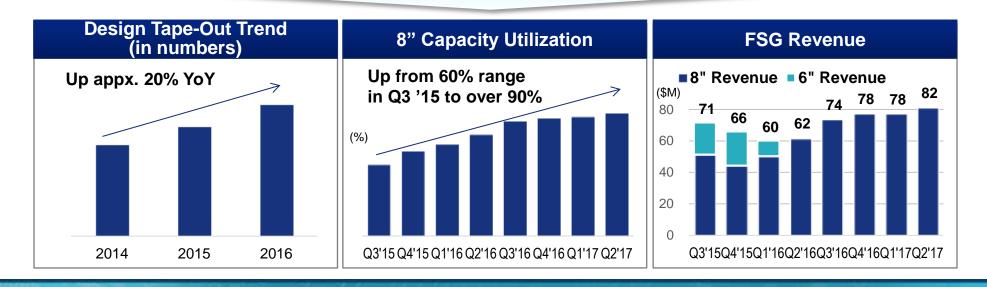
# Why we believe we are the preferred foundry service provider



### Following a Strategic Re-positioning, FSG Reported Improvement in Key Indicators

~ 2014 "SELECTIVE" Strateg	y change "DIVERSIFY" 2015 ~							
<ul> <li>Higher revenue per wafer business from niche customers</li> <li>Concentration in the high-end smartphone and mixed-signal technology market</li> <li>→ Few power and Chinese customers, No major fabless customers</li> </ul>	<ul> <li>Broaden our customer base (Fabless + IDM)</li> <li>Reduce dependency on a handful of large accounts</li> <li>Expand into new markets</li> <li>Global fabless leaders, ranging from communication and power as well as other</li> </ul>							
segments with high volume potential We re-positioned FSG to target analog global IC customers aligned with our analog technology and engineering expertise								

As a result, we have seen improvement in key indicators as well as financial results





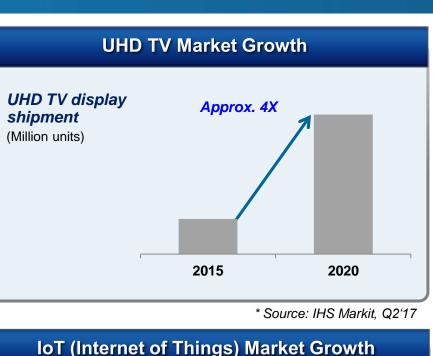
## **Standard Products Group:**

**Display and Power Solutions** 



### Future Growth Opportunities – OLED, UHD TV and IoT Markets







<sup>\*</sup> Source: MX internal estimates

\*Results based on IHS Markit, Technology Group, Small Medium Display Market Tracker, Q2 2017 and Display Long Term Demand Forecast Tracker, Q2 2017. Results are not an endorsement of MagnaChip Semiconductor. Any reliance on these results is at the third party's own risk. Visit technology, ins.com for more details.

### MX Competitive Advantages with Long History of Expanding OLED Applications

#### **Over 10 Years History of Expanding OLED Applications**

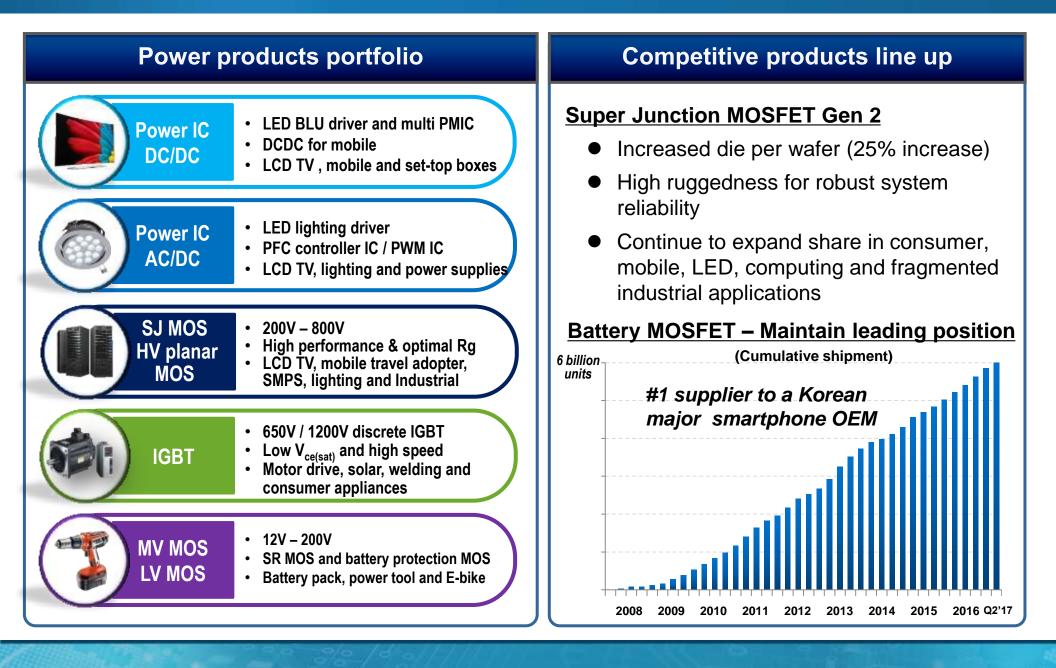




### **SPG Power Solutions Overview**

- Power Solutions business line was launched in late 2007, with production of MOSFETs
  - Current product portfolio includes LV, MV trench MOSFET, and HV planar MOSFET, IGBTs, Power ICs and Super Junction MOSFETs
- End markets: TVs, smartphones, tablet PCs and desktop/notebook PCs, industrial applications in power supplies, LED lighting and motor control
- Customer base: first engagement with a top Korean OEM in 2008, followed by engagements with other global customers
- Recent highlights include:
  - Revenue growth of 17% year-over-year in Q2 2017
  - Portfolio optimization resulted in an increase of gross profit margin by nearly 10% points over the past two years
  - Demand from premium products like Power ICs, Super Junction MOSFET, and IGBT devices set a record

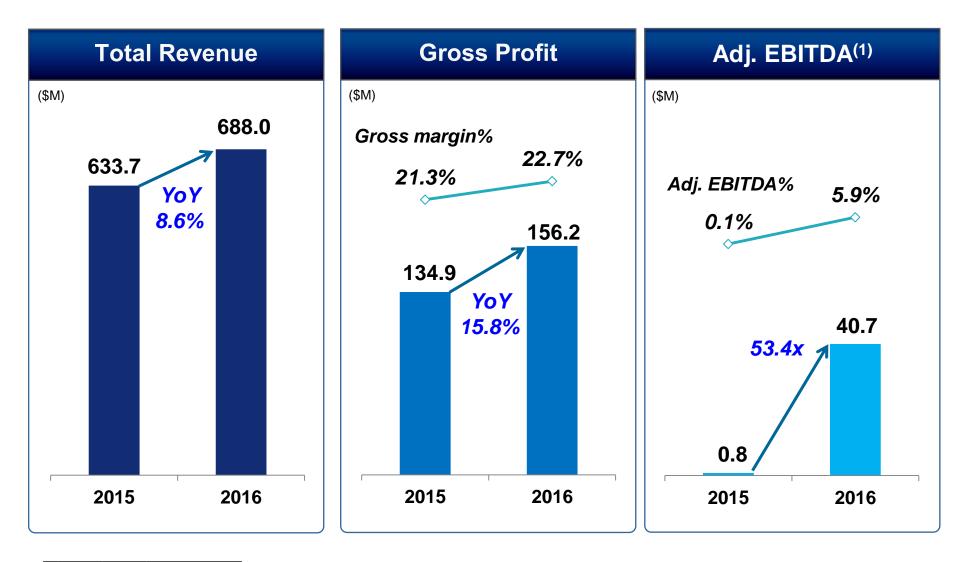
### **Power Product Portfolio Sampler**



# **Financial Summary**

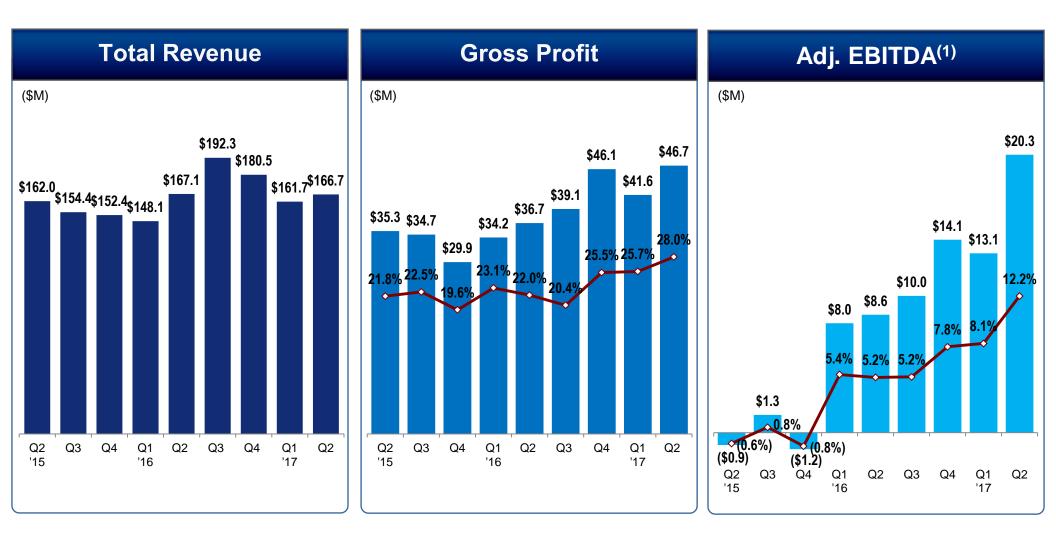


# Key Financial Indicators Show Improvement: 2016 v. 2015



(1) A reconciliation of Adjusted EBITDA, a non-GAAP measure, to net income (loss) can be found in the Appendix to this presentation.

### **Historical Financial Results - Quarterly**



(1) A reconciliation of Adjusted EBITDA, a non-GAAP measure, to net income (loss) can be found in the Appendix to this presentation.

### **Income Statement Summary – Annual Results**

#### **Historical Financials**

		Year Ended	
(\$M)	2014	2015	2016
Standard Products Group - Display Solutions	\$199.9	\$207.5	\$282.0
Standard Products Group - Power Solutions	137.2	134.8	131.5
Foundry Services Group	360.5	290.8	274.0
Other	0.6	0.6	0.6
Total Revenue	\$698.2	\$633.7	\$688.0
% Annual Growth	-4.9%	-9.2%	8.6%
COGS	545.4	498.8	531.7
Gross Profit	152.9	134.9	156.2
Selling, general and administrative expenses	127.0	94.4	89.1
Research and development expenses	92.8	83.4	72.2
Restructuring and impairment charges (gain)	10.3	_	(7.8)
Total Operating Expense	230.0	177.8	153.5
% of Revenue	32.9%	28.1%	22.3%
Operating Income (Loss)	(\$77.1)	(\$42.9)	\$2.7
% of Revenue	-11.0%	-6.8%	0.4%
Interest expense	(16.8)	(16.3)	(16.2)
Foreign currency loss, net	(24.7)	(42.5)	(15.4)
Others, net	2.9	1.8	3.0
Income tax expenses (benefits)	1.5	(15.1)	3.7
Net Loss	(117.2)	(84.9)	(29.6)
% of Revenue	-16.8%	-13.4%	-4.3%
Adj. EBITDA <sup>(1)</sup>	\$8.5	\$0.8	\$40.7
% of Revenue	1.2%	0.1%	5.9%
Capex (PP&E)	\$17.4	\$6.4	\$18.7

Source: Company filings

(1) A reconciliation of Adjusted EBITDA, a non-GAAP measure, to net income (loss) can be found in the Appendix to this presentation.

### **Income Statement Summary**

#### **Historical Financials**

	Three Mon	ths Ended	Six Months Ended		
(\$M)	June 30,	June 30,	June 30,	June 30,	
	2017	2016	2017	2016	
Standard Products Group - Display Solutions	\$49.8	\$74.4	\$98.6	\$132.5	
Standard Products Group - Power Solutions	35.3	30.2	70.6	60.1	
Foundry Services Group	81.5	62.3	159.1	122.3	
Other	0.1	0.2	0.1	0.3	
Total Revenue	\$166.7	\$167.1	\$328.4	\$315.2	
COGS	120.0	130.4	240.2	244.2	
Gross Profit	46.7	36.7	88.2	71.0	
Selling, general and administrative expenses	17.7	20.4	40.9	40.4	
Research and development expenses	16.9	18.2	34.9	36.0	
Restructuring and other charges (gain), net	_	1.3	(17.0)	(6.5)	
Early termination charges	2.3	4.2	13.4	4.2	
Total Operating Expense	36.9	44.1	72.1	74.1	
% of Revenue	22.1%	26.4%	22.0%	23.5%	
Operating Income	\$9.7	(\$7.4)	\$16.1	(\$3.1)	
% of Revenue	5.8%	-4.4%	4.9%	-1.0%	
Interest expense	(5.4)	(4.1)	(10.6)	(8.1)	
Foreign currency gain (loss), net	(11.9)	(7.1)	29.9	1.1	
Other income, net	0.1	1.0	1.7	1.5	
Income tax expenses	0.5	0.3	1.4	1.1	
Net Income	(8.1)	(17.8)	35.7	(9.7)	
% of Revenue	-4.8%	-10.7%	10.9%	-3.1%	
Adj. EBITDA <sup>(1)</sup>	\$20.3	\$8.6	\$33.4	\$16.6	
% of Revenue	12.2%	5.2%	10.2%	5.3%	
Capex (PP&E)	(\$5.4)	(\$4.3)	(\$10.8)	(\$5.8)	

Source: Company filings

(1) A reconciliation of Adjusted EBITDA, a non-GAAP measure, to net income (loss) can be found in the Appendix to this presentation.

### **Balance Sheet Summary**

	2015			2016			2017			
(\$M)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Assets										
Cash and cash equivalents	91.4	72.7	68.5	90.9	73.5	83.9	75.4	83.4	132.6	131.5
Accounts receivable, net	71.8	67.8	57.9	63.5	55.2	54.7	66.0	61.8	81.7	76.0
Inventories, net	76.4	71.8	58.2	57.6	71.0	70.4	72.1	57.0	61.0	58.1
Other current assets <sup>(1)</sup>	22.1	26.4	28.5	48.2	47.7	48.8	31.4	40.5	29.8	27.2
Property, plant and equipment, net	216.5	208.4	189.4	192.0	190.6	184.7	195.6	179.8	190.7	186.1
Intangibles, net	2.4	2.5	2.5	2.6	2.8	2.9	3.2	3.1	3.4	3.5
Other non-current assets	24.8	23.0	25.4	23.0	18.1	20.2	19.7	16.4	15.5	19.6
Total assets	505.5	472.5	430.4	477.9	458.8	465.7	463.4	442.0	514.7	502.0
Liabilities and Shareholders' equity										
Accounts payable	73.8	57.4	48.9	55.5	60.1	64.2	66.5	51.5	55.8	52.2
Other accounts payable	8.2	9.7	8.4	11.0	5.8	8.8	12.3	12.3	9.5	12.7
Accrued expenses	74.6	75.6	68.6	76.7	74.5	80.1	58.3	60.4	55.7	51.2
Other current liabilities <sup>(2)</sup>	4.6	5.9	6.8	23.4	6.8	16.1	15.7	29.3	13.1	13.9
Long-term borrowings, net	224.1	224.1	224.1	224.2	220.5	220.7	220.9	221.1	301.9	302.4
Accrued severance benefits, net	144.5	143.7	134.0	134.1	138.1	131.8	142.8	129.2	139.9	130.0
Other non-current liabilities	11.5	10.7	12.4	15.4	12.7	14.2	11.8	10.3	9.4	10.1
Total liabilities	541.2	527.2	503.2	540.2	518.5	536.0	528.3	514.1	585.3	572.5
Shareholders' equity									· · ·	
Common stock	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Additional paid-in capital	118.6	121.6	124.2	124.6	125.2	126.1	129.1	130.2	132.7	133.9
Accumulated deficit	(11.3)	(11.3)	(11.3)	(11.3)	(96.2)	(96.2)	(96.2)	(96.2)	(125.8)	(125.8)
Net income (loss)	(20.0)	(50.7)	(107.7)	(84.9)	8.1	(9.7)	20.2	(29.6)	43.7	35.7
Treasury stock	(90.9)	(90.9)	(90.9)	(90.9)	(90.9)	(90.9)	(90.9)	(90.9)	(102.3)	(102.3)
Other comprehensive income (loss)	(32.5)	(23.8)	12.5	(0.2)	(6.2)	(0.0)	(27.5)	14.0	(19.3)	(12.3)
Total shareholders' equity	(35.8)	(54.7)	(72.8)	(62.3)	(59.6)	(70.3)	(64.9)	(72.1)	(70.6)	(70.5)
Total liabilities and shareholders' equity	505.5	472.5	430.4	477.9	458.8	465.7	463.4	442.0	514.7	502.0

Source: Company filings

(1) Other current assets include the balances reported as "Restricted cash" on the balance sheet

(2) Other current liabilities include the balances reported as "Deferred revenue" and "Deposits received" on the balance sheet

### Key Takeaways

Focused on improving gross margin and overall profitability: Q2 Revenue at the higher end of the guidance, Gross margin% and Adj. EBITDA% at highest levels in more than 4 years

Largest independent supplier of OLED Display Driver IC's; #2 overall and new 40nm and 55nm flexible and bezel-less product design-wins

#### 3

2

Established as a specialty analog 8" foundry with differentiated process technologies focused on providing highly engineered analog and mixed signal processes

#### 4

Completed a voluntary headcount reduction, which is expected to generate annual cost savings of approximately \$24 million with a payback period of less than 1.5 years



# Appendix



### **Key Leadership Bios**

#### YJ Kim



CEO Board Director

- Became CEO and Director in May 2015
- Action GM of Foundry Biz in 2015
- Interim CEO and GM, Display Solutions since May 2014
- EVP/GM, Display Solutions Division in May 2013
- Prior to joining MX, served at Cavium as VP/GM of OCTEON Multi-core Processor

#### Jo



CFO / CAO Executive VP

- Appointed CFO and CAO in May 2015
- Served as Interim CFO, CAO and SVP since March 2014
- Prior to joining MX, served at StartForce as CFO since July 2010

#### WM Lee



Executive Vice President and General Manager, Standard Products Group

- Became EVP and GM of SPG in November 2015
- Served as SVP, Korea Sales from 2013
- Prior to joining MX, was one of the founding executives and served as VP, Global Strategy and Marketing at Samsung LED from 2009 to 2011





Executive Vice President and General Manager, Foundry Services Group

- Became GM of FSG in November 2015
- Became EVP in December 2011, after serving in various positions since September 2007
- Prior to joining MX, served at Chartered Semiconductor Manufacturing as Director of the Technology Development Division from 1999 to 2007

#### Ted Kim



Chief Compliance Officer, General Counsel and Secretary

- Became CCO and EVP on May 2015, and became General Counsel and Secretary in November 2013
- Prior to joining MX, served at Samsung
   Fire & Marine
   Insurance as Head
   Lawyer of Global
   Business
   Development from
   2012 to 2013

# Reconciliation of Adjusted EBITDA and Adjusted Net Income – Annual Results

	Year Ended				
	December 31,	December 31,	December 31,		
	2016	2015	2014		
(\$M)					
Net Loss	(29.6)	(84.9)	(117.2)		
Interest expense, net	16.0	16.0	16.2		
Income tax expenses (benefits)	3.7	(15.1)	1.5		
Depreciation and amortization	25.4	26.5	30.0		
EBITDA	15.5	(57.4)	(69.4)		
Adjustments:					
Restructuring, impairment and other (gain)	(1.3)	_	10.3		
Equity-based compensation expense	3.8	2.8	2.1		
Foreign currency loss (gain), net	15.4	42.5	24.6		
Derivative valuation loss (gain), net	0.3	0.5			
Restatement related expenses	7.0	12.4	40.9		
Adjusted EBITDA	40.7	0.8	8.5		
Net Loss	(29.6)	(84.9)	(117.2)		
Adjustments:					
Restructuring, impairment and other (gain)	(1.3)		10.3		
Equity-based compensation expense	3.8	2.8	2.1		
Amortization of intangibles	—		1.2		
Foreign currency loss, net	15.4	42.5	24.6		
Derivative valuation loss, net	0.3	0.5			
Restatement related expenses	7.0	12.4	40.9		
Adjusted Net Loss	(4.5)	(26.7)	(38.1)		

# Reconciliation of Adjusted EBITDA and Adjusted Net Income

	Three Mor	Three Months Ended		ths Ended
	June 30,	June 30,	June 30,	June 30,
	2017	2016	2017	2016
(\$M)				
Net Income (Loss)	(8.1)	(17.8)	35.7	(9.7)
Interest expense, net	5.2	4.0	10.2	8.0
Income tax expenses	0.5	0.3	1.4	1.1
Depreciation and amortization	6.8	6.2	13.5	12.3
EBITDA	4.4	(7.3)	60.8	11.6
Adjustments:				
Restructuring and other charges (gain), net		1.3	(17.0)	(5.5)
Early termination charges	2.3	4.2	13.4	4.2
Equity-based compensation expense	0.3	1.0	1.2	1.5
Foreign currency loss (gain), net	11.9	7.1	(29.9)	(1.1)
Derivative valuation loss (gain), net	0.5	0.0	(0.2)	0.0
Restatement related expenses	0.9	2.3	5.2	5.9
Adjusted EBITDA	20.3	8.6	33.4	16.6
Net Income (Loss) Adjustments:	(8.1)	(17.8)	35.7	(9.7)
Restructuring and other charges (gain), net		1.3	(17.0)	(5.5)
Early termination charges	2.3	4.2	13.4	4.2
Equity-based compensation expense	0.3	1.0	1.2	1.5
Foreign currency loss (gain), net	11.9	7.1	(29.9)	(1.1)
Derivative valuation loss (gain), net	0.5	0.0	(0.2)	0.0
Restatement related expenses	0.9	2.3	5.2	5.9
Adjusted Net Income (Loss)	7.8	(1.9)	8.3	(4.7)

### Disclaimer

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