# TTM Technologies, Inc. Investor Presentation Goldman Conference

June 25, 2020

Todd Schull, CFO



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This communication may contain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, including statements related to the future business outlook, events, and expected performance of TTM Technologies, Inc. ("TTM", "we" or the "Company"). The words "anticipate," "believe," "plan," "foresee," "estimate," "project," "expect," "expect," "seek," "target," "intend," "goal" and other similar expressions, among others, generally identify "forward-looking statements," which speak only as of the date the statements were made and are not guarantees of performance. Actual results may differ materially from these forward-looking statements. Such statements relate to a variety of matters, including but not limited to the operations of TTM's businesses. These statements reflect the current beliefs, expectations and assumptions of the management of TTM, and we believe such statements to have a reasonable basis.

It is uncertain whether any of the events anticipated by the forward-looking statements will transpire or occur, or if any of them do, what impact they will have on the results of operations and financial condition of the Company. These forward-looking statements are based on assumptions that may not materialize, and involve certain risks and uncertainties, many of which are beyond our control, that could cause actual events or performance to differ materially from those indicated in such forward-looking statements. Factors, risks, trends, and uncertainties that could cause actual results to differ materially from those projected, anticipated, or implied in forward-looking statements include, but are not limited to potential changes in domestic or global economic conditions, demand for our products, market pressures on prices of our products, warranty claims, changes in product mix, contemplated significant capital expenditures and related financing requirements, our dependence upon a small number of customers, and other factors set forth in the Company's most recent Annual Report on Form 10-K and Quarterly Report on Form 10-Q and in the Company's other filings filed with the Securities and Exchange Commission (the "SEC"), including under the heading "Risk Factors", and which are available at the SEC's website at www.sec.gov.

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In addition to the financial statements presented in accordance with U.S. generally accepted accounting principles ("GAAP"), TTM uses certain non-GAAP financial measures, including EBITDA, Adjusted EBITDA, Non-GAAP Operating Income, Non-GAAP Operating Income, Non-GAAP Operating Margin, Non-GAAP Gross Margin, Non-GAAP EPS and Adjusted Operating Cash Flow. We present non-GAAP financial information to enable investors to see TTM through the eyes of management and to provide better insight into our ongoing financial performance.

A material limitation associated with the use of the above non-GAAP financial measures is that they have no standardized measurement prescribed by GAAP and may not be comparable to similar non-GAAP financial measures used by other companies. We compensate for these limitations by providing full disclosure of each non-GAAP financial measure and reconciliation to the most directly comparable GAAP financial measure. However, the non-GAAP financial measures should not be considered in isolation from, or as a substitute for, financial information prepared in accordance with GAAP.

See Appendix for reconciliations of Adjusted EBITDA and Non-GAAP Operating Income to the most comparable GAAP metric.

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# Leading PCB, Specialty Components and Technology Solutions Provider

# Technology-enabled end markets and customers

Critical supplier to today's fastest growing technologies such as advanced defense radar, automobile technology and medical device technology

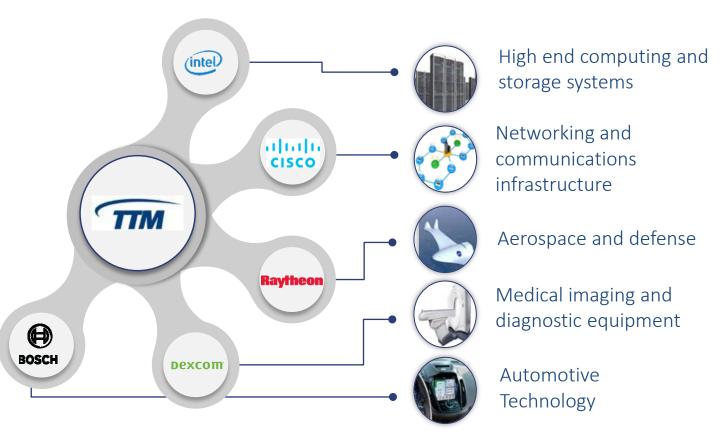
Significant global footprint with 26 facilities and 19,500 employees

#### Scale:

\$1,972 mn FY 2019 pro-forma revenue

#### **Profitability:**

\$270.5 mn FY 2019 pro-forma Adj. EBITDA<sup>1</sup>



<sup>1</sup> See Appendix for reconciliation



# Strategic Focus



#### Diversification

- Diverse end markets
- Near term -Aerospace & Defense



#### Differentiation

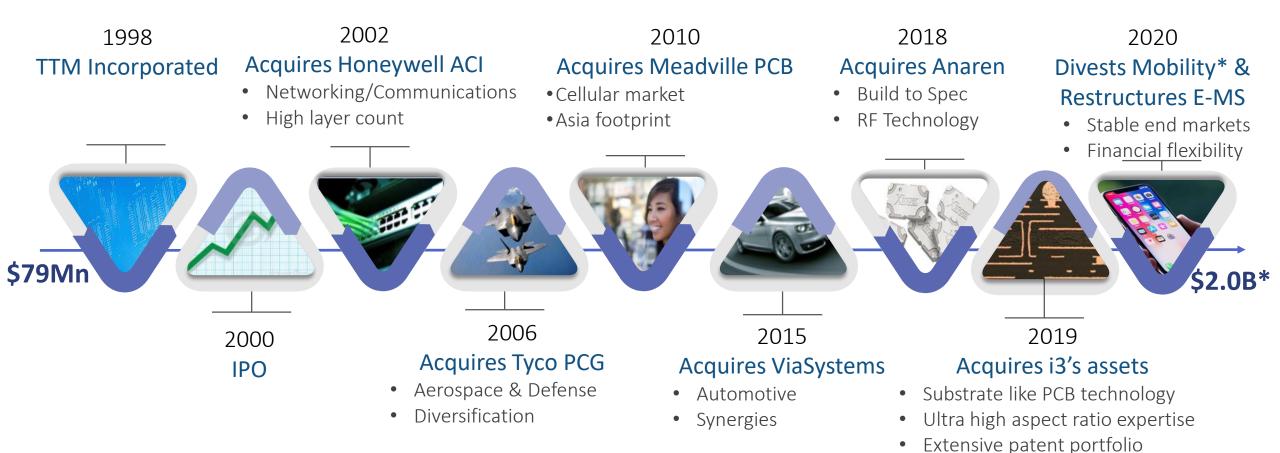
- Scale
- Technology breadth
- Global footprint
- Early engagement



# Discipline

- Operational execution
- Earnings power
- Cash flow generation

# The Evolution of TTM Through Strategic Transactions



# Increased scale and diversification

\*Mobility divestment closed 4/19/20; \$2.0 billion is TTM's 2019 pro-forma revenue excluding Mobility business unit and two E-MS plants being closed

Increased differentiation and stability



# TTM's Journey to Differentiation

Reducing exposure to consumer or commodity businesses

Mobility Divestiture E-M Solutions Restructure

#### The Result:

Highly valued partner
Better visibility
Satisfied customers
Greater opportunity
Improved quality of earnings

Differenties Investing in engineering/technology

Footprint diversification Value-added integration solutions (Anaren)





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# **Divestiture of Mobility Business Unit**

## Transaction overview

#### **Asset**

- TTM has sold its four China manufacturing plants comprising substantially all of the assets of its Mobility business unit to AKMMeadville Electronics (Xiamen) Co., Ltd., a Chinese consortium consisting of Meizhi Investment (Xiamen) Co., Ltd., Xiamen Semiconductor Investment Group Co., Ltd., AKM Electronics Industrial (Panyu) Ltd. and Anmei Ventures (Xiamen) Equity Investment Partnership (Limited Partnership).
- Mobility business unit includes four manufacturing facilities in China and associated revenues.

#### Price

- \$550 million for Chinese assets plus estimated \$95 million for certain retained accounts receivable collection
- Enterprise value represents 7.1x of Mobility business unit's 2019 adjusted EBITDA of \$90.5 million<sup>1</sup>

#### Consideration

- 100% cash transaction
- Anticipated net proceeds of approximately \$580 million 3-4 months after closing; can exercise bank guarantees August 7th

#### Approvals & Timing

Announced closing 4/19/20

#### **Financial Impact**

- TTM to retain Mobility business unit's earnings and cash flow through closing
- Proceeds will be used for de-levering as a first priority
- Post transaction, TTM is expected to have a pro-forma net debt/adjusted EBITDA of less than 2.0x1

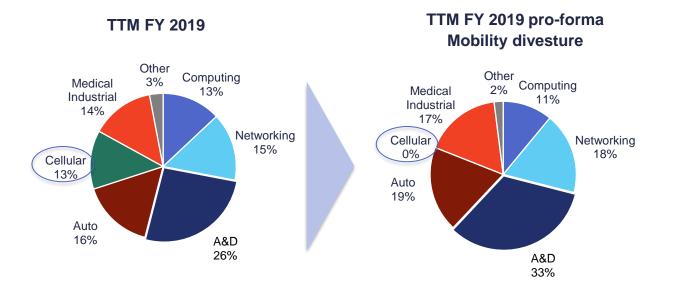
<sup>1</sup> See Appendix for reconciliation



# Strategic rationale

- ✓ Reduces exposure to highly seasonal and cyclical cellular market
- ✓ Increases mix of business to longer cycle markets with aerospace and defense remaining largest market segment
- ✓ More capital available for growth investments in our remaining businesses while buyer committed to investing in purchased business
- ✓ Reduces China manufacturing footprint
- ✓ Less volatile financial performance
- ✓ Provides balance sheet flexibility to reduce debt and/or pursue acquisitions

# Increased exposure to stable and growing end markets and customers



Customer concentration	TTM FY 2019	TTM FY 2019 pro- forma
Top 1	14%, Apple	No >10% customers
Top 5	33%, Apple, Bosch, Huawei, Raytheon, Tesla	27%, Bosch, Collins, Northrop, Raytheon, Tesla

#### TTM FY 2019 pro-forma Mobility divesture

	% of total sales	2018-2023 CAGR (third party)	Growth drivers
Aerospace and Defense	33%	2-4%	<ul> <li>Increased commercial air traffic</li> <li>Increased military equipment builds</li> </ul>
Automotive	19%	5-8%	<ul><li>Electric &amp; autonomous vehicle</li><li>Safety/ADAS/ infotainment</li></ul>
Computing	11%	1-3%	Semiconductor R&D     Data center expansion
Medical Industrial	17%	3-5%	<ul><li>Patient monitoring</li><li>Home automation</li></ul>
Networking and Communications	18%	3-5%	<ul><li>5G infrastructure spend</li><li>Optical networking</li></ul>

# Potential Use of proceeds

- Maintain <u>financial discipline</u> and optimize the balance sheet through de-levering
- Ongoing investment in our technology portfolio
  - New product and technology development
  - Strategic acquisitions
- Increased balance sheet flexibility

Drive growth through investments, strengthen balance sheet and create value for shareholders



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# **Restructuring of E-MS Business Unit**

# E-MS Restructuring Background

- E-MS business unit Three Chinese manufacturing facilities: Two in Shanghai (SH BPA and SH E-MS) and one in Shenzhen (SZ).
- Ceasing operations at SH E-MS and SZ facilities and absorbing SH BPA in communications and computing (C&C) business unit, part of Commercial Sector.
- 2019 SH EM-S and SZ: 63% Automotive, 19% Networking/Communications, 18% Medical, Industrial and Instrumentation
- 2019 SH EM-S and SZ Financials: \$161.3M Revenue, \$9.6M Operating Income, \$15.1M EBITDA<sup>1</sup>

<sup>1</sup> See Appendix for reconciliation

# Strategic rationale

- ✓ Increasing focus on differentiated, higher margin products; commercial assembly lower margin
- ✓ US/China trade war as well as COVID-19 had negative impact on E-MS business unit
- ✓ The Town of Nanxiang in the Jaiding district of Shanghai communicated intention to expropriate the land where the Shanghai E-M Solutions facility is located
- ✓ Not sufficient scale to compete with larger competitors
- ✓ Reduces TTM's China footprint

# Exited Businesses Financial Impact FY 2019

	TTM As Reported (\$mn)	Exiting Businesses (\$mn)	TTM Excluding Exited Businesses Pro-Forma (\$mn)
Revenues	2689.3	717.3	1972
Non-GAAP Operating Profit <sup>1</sup>	204.1 (7.6%)	24.3 (3.4%)	179.8 (9.1%)
Adjusted EBITDA <sup>1</sup>	376.2 (14.0%)	105.7 (14.7%)	270.5 (13.7%)
Cash	400.1	N/A	1000
Debt	1475	N/A	1475
Net leverage <sup>2</sup>	2.9x	N/A	1.8x

<sup>&</sup>lt;sup>1</sup> See Appendix for reconciliation, <sup>2</sup> Net leverage is calculated by dividing net debt (net of discount, net of cash) by adjusted EBITDA. TTM excluding mobility pro-forma assumes \$600 million in net proceeds.





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# **Diversification**

# End Market Growth Drivers and Outlook (Pro-forma Mobility)

		A STATE OF THE STA	FY 2019 Net Sales	End Market Growth Drivers	<b>2018 – 2023 CAGR</b> (3 <sup>rd</sup> Party)	2020 TTM View
Aerospace	Defense		33%	<ul><li>Increased Use of AESA Radar</li><li>Increased Military Equipment Builds</li></ul>	2-4%	Above

# **Key Defense Megatrends**

Increasing
Defense Budgets



20% Increase FY17-FY19

Key Program ramps



80 key DoD Program ramps

Increasing AESA Radar Use



18% CAGR AESA Growth

Increasing Supplier Consolidation



M&A and US footprint

Aerospace & Defense Business At A Glance

FY 2019

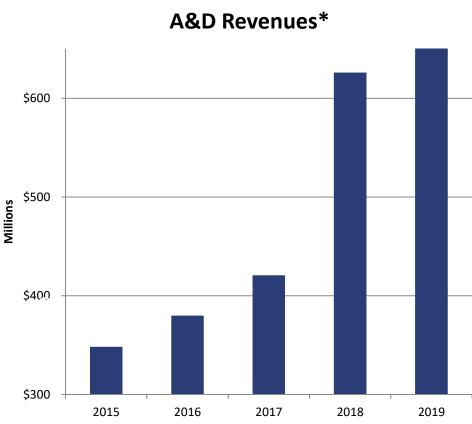
A&D revenue grew by 15%

Program backlog \$600M

Purchased i3 assets

**Initial Anaren synergies** 







\*Pro-forma ViaSystems acquisition

# Strong Defense Program Alignment

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Microwave	Missile	Communication	Space
Systems	Systems	Systems	Systems
F-35	APKWS	JTRS	Orion
AMDR	AMRAAM	Soldier Radio	GPS III
Q-53	JDAM	Rifleman	MSP
G/ATOR	JAGM	Manpack	OPIR
F-16 (SABR)	Hellfire	Project X	ESS/PTS
Space Fence	Paveway	Multi Channel	Viasat-3
LRDR/HDR	Patriot	Hand Held (MCHH)	GEO Comm
JCREW	Standard Missile		
LTAMDS			



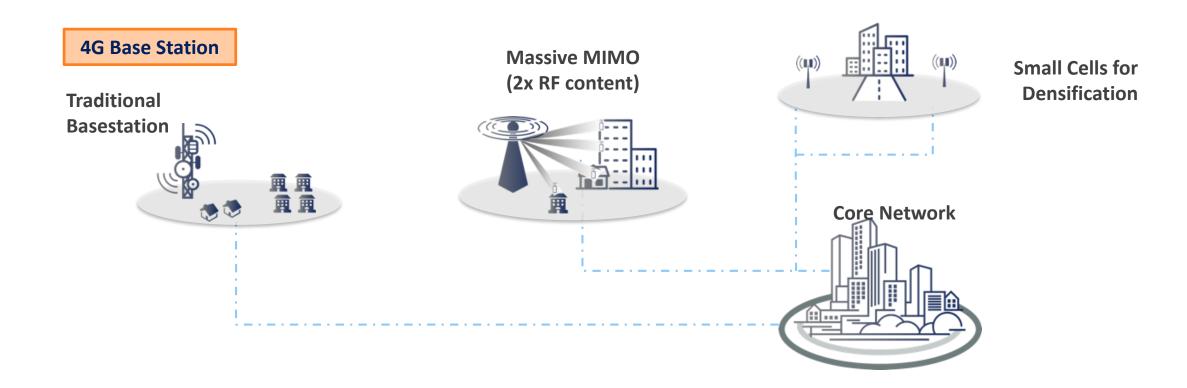
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Aerospace Defense	33%	<ul><li>Increased Use of AESA Radar</li><li>Increased Military Equipment Builds</li></ul>	2-4%	Above
Automotive	19%	<ul><li>Electric &amp; Autonomous Vehicle</li><li>Safety/ADAS/Infotainment</li></ul>	5-8%	Below
Computing Storage Peripherals	11%	<ul><li>Semiconductor Development</li><li>Data Center expansion</li></ul>	1-3%	Above
Medical Industrial Instrumentation	17%	<ul><li>Patient Monitoring</li><li>Automated Test Equipment</li></ul>	3-5%	Inline
Networking Communications	18%	<ul><li> 5G Infrastructure Spend</li><li> Networking Infrastructure</li></ul>	3-5%	Below

# 5G Telecom & Networking Infrastructure Advancements

# 5G Diverse Deployments Address Evolving Smart World Demand for:

Higher Speeds, Bandwidth & Frequencies with Low Latency



5G network densification and complexity drives significantly more PCB and RF content



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# **Differentiation**

# End Device Requirements Drive New PCB Technology

#### **End Device Trends**

- Increasing complexity
- Miniaturization
- Increasing signal speed
- Increasing performance

# **PCB** Requirements

- Increasing circuit density
- Higher layer count
- Microvias
- Material innovations

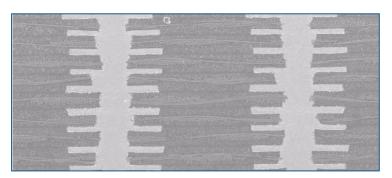
# **TTM Technologies**

- mSAP/SLP
- HDI
- Rigid Flex
- RF Radar

## **Increasingly Crowded PCBs**



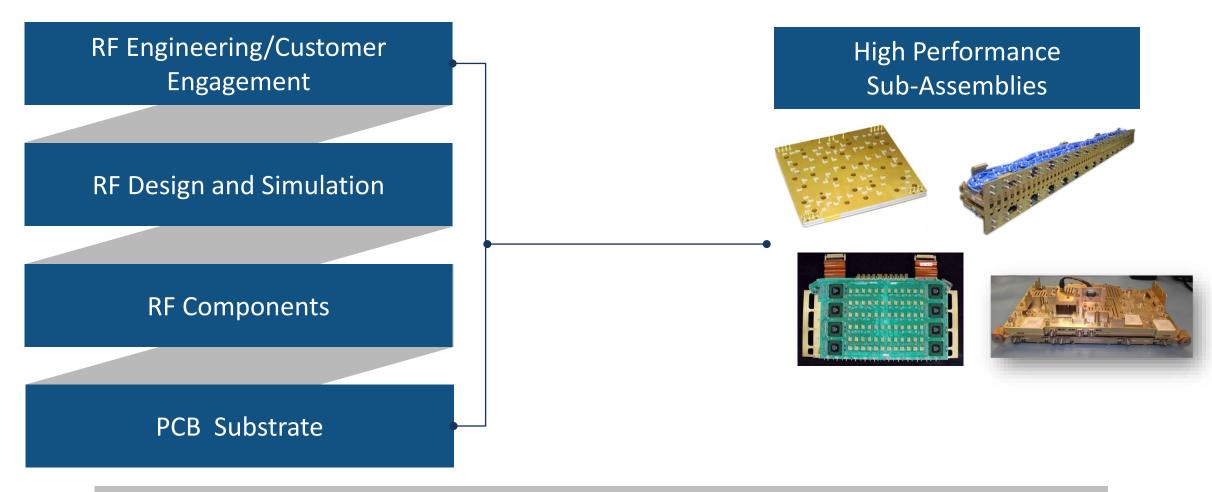
#### Microvias



#### Laser Drills



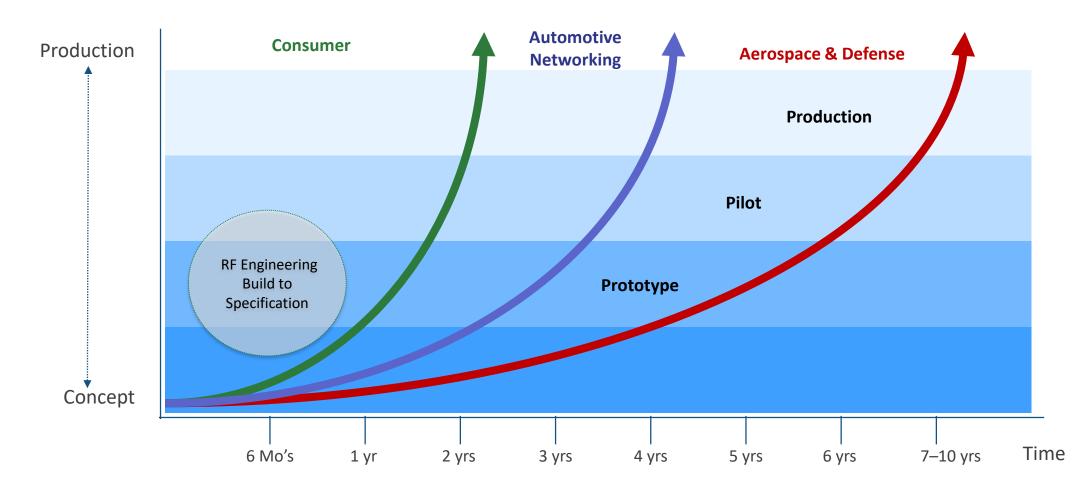
# TTM Provides Differentiated, Complementary Capabilities



RF engineering strength complements TTM manufacturing strength

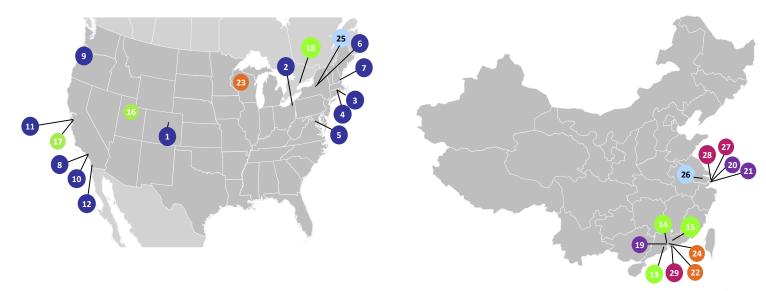


# Successful Customer Engagement Model...



Engaging customers from concept to volume production

# **Global Footprint**



#### A&D

#### **Aerospace & Defense**

1 Denver - DEN

2 North Jackson - NJ

3 Stafford - ST

Santa Ana - SA

**5** Sterling - STE

San Diego - SD

**Specialty** 

8 Anaheim - ANA

9 Forest Grove - FG

6 Syracuse – SYR

Salem – SAL

#### AMI&I

13 Zhongshan - ZS

4 Guangzhou - GZ

U Huiyang - HY

16 Logan - LG

San Jose - SJ

18 Toronto - TOR

#### **Commercial**

#### Mobility

Guangzhou - GME

Guangzhou - FPC Shanghai - SME

**21** Shanghai - SP

#### C&C

Hong Kong - OPCM 25 Syracuse - SYR-W

Chippewa Falls - CF

**2** Dongguan - DMC

#### E-MS

Wireless

26 Suzhou - SUZ

#### **E-M Solutions**

**3** Shanghai - SH

🥸 Shanghai - SH E-MS

Shenzhen - SZ



Manufacturing facilities closing By end of 2020



Manufacturing facilities divested 4/19/20 No longer part of TTM



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# Discipline

# Reported Annual Revenue and Profit Growth





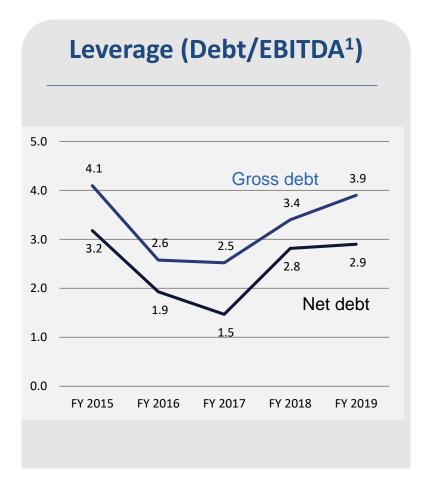


Increased scale, diversification, and differentiation

# Cash Flow Used to Pay Down Debt







# Financial Model and Targets

Metric	CY2019	Target
Revenue growth	-5.5%	4-6%
Non-GAAP Operating Margin <sup>1</sup>	7.6%	12-14%
Adjusted EBITDA Margin <sup>1</sup>	14.0%	16-18%
Capex	5.3% of Revenues	4-5% of Revenue
Free Cash Flow	\$176M	\$230-270M
Return on Invested Capital	7.3%	16-18%

# TTM Remains Committed to Strategic Focus



#### Diversification

- Diverse end markets
- Near term -Aerospace & Defense



#### Differentiation

- Scale
- Technology breadth
- Global footprint
- Early engagement



# Discipline

- Operational execution
- Earnings power
- Cash flow generation



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**Thank You** 



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**Appendix** 

# TTM Consolidated, Mobility, SZ + SH-EMS, and Pro-Forma Financials (non-GAAP, millions of dollars)

#### TTM Consolidated

TTM Consolidated	Q1-19A	Q2-19A	Q3-19A	Q4-19A	FY 2019A	Q1-20A
Sales	620.2	633.0	716.8	719.3	2,689.3	610.8
Gross Profit	90.6	86.4	106.0	126.8	409.7	88.3
Gross Margin	14.6%	13.6%	14.8%	17.6%	15.2%	14.5%
Op Income	40.5	37.2	54.0	72.4	204.1	35.7
Operating Margin	6.5%	5.9%	7.5%	10.1%	7.6%	5.8%
EBITDA	78.5	82.9	103.5	111.3	376.2	82.2
EBITDA %	12.7%	13.1%	14.4%	15.5%	14.0%	13.5%

#### SZ + SH E-MS

SZ + SH-EMS	Q1-19A	Q2-19A	Q3-19A	Q4-19A	FY 2019A	Q1-20A
Sales	36.0	40.9	54.5	29.8	161.3	14.2
Gross Profit	3.0	3.4	5.2	2.4	14.0	(2.4)
Gross Margin	8.3%	8.4%	9.5%	8.0%	8.7%	-16.9%
Op Income	2.0	1.3	4.3	2.0	9.6	(4.2)
Operating Margin	5.5%	3.1%	7.9%	6.7%	5.9%	-29.4%
EBITDA	2.5	3.1	7.1	2.3	15.1	(3.3)
EBITDA %	6.9%	7.6%	13.1%	7.9%	9.4%	-23.5%

#### **Mobility Business Unit**

	Q1-19A	Q2-19A	Q3-19A	Q4-19A	FY 2019A	Q1-20A
Sales	83.8	106.1	182.6	183.5	556.0	113.2
Gross Profit	(10.1)	(8.2)	18.6	24.3	24.5	4.7
Gross Margin	-12.1%	-7.8%	10.2%	13.2%	4.4%	4.2%
Op Income	(11.9)	(10.3)	15.9	21.0	14.7	2.1
Operating Margin	-14.2%	-9.7%	8.7%	11.4%	2.6%	1.9%
EBITDA	6.0	9.2	36.9	38.5	90.6	21.9
EBITDA %	7.2%	8.7%	20.2%	21.0%	16.3%	19.3%

#### TTM, excluding Mobility, SZ & SH E-MS

	Q1-19A	Q2-19A	Q3-19A	Q4-19A	FY 2019A	Q1-20A
Sales	500.4	486.0	479.7	506.0	1,972.1	483.4
Gross Profit	97.7	91.2	82.2	100.1	371.2	86.0
Gross Margin	19.5%	18.8%	17.1%	19.8%	18.8%	17.8%
Op Income	52.2	46.2	33.8	49.4	179.8	37.7
ОМ	10.4%	9.5%	7.0%	9.8%	9.1%	7.8%
EBITDA	70.0	70.6	59.5	70.5	270.5	63.6
EBITDA %	14.0%	14.5%	12.4%	13.9%	13.7%	13.2%

# TTM End Market Exposure

#### TTM Consolidated

End Markets	1Q 19	2Q 19	3Q 19	4Q 19	FY2019	1Q 20	2Q 20G
Aerospace/Defense	27%	28%	24%	26%	26%	30%	34%
Automotive	17%	16%	17%	14%	16%	12%	13%
Cellular Phones	7%	6%	19%	16%	13%	11%	2%
Computing/Storage/Periph	13%	15%	12%	14%	13%	14%	13%
Medical/Industrial/Inst	15%	15%	13%	13%	14%	16%	18%
Networking/Communications	18%	17%	13%	15%	15%	14%	18%
Other	3%	3%	2%	2%	2%	3%	2%

#### SZ + SH-EMS

End Markets	1Q 19	2Q 19	3Q 19	4Q 19	FY2019	1Q 20	2G 20G
Aerospace/Defense	0%	1%	0%	0%	0%	0%	1%
Automotive	56%	58%	74%	59%	63%	49%	53%
Cellular Phones	0%	0%	0%	0%	0%	0%	0%
Computing/Storage/Periph	0%	0%	0%	0%	0%	0%	0%
Medical/Industrial/Inst	22%	23%	11%	19%	18%	23%	17%
Networking/Communications	21%	18%	16%	22%	19%	29%	29%
Other	1%	0%	-1%	0%	0%	-1%	0%

#### Mobility Business Unit

End Markets	1Q 19	2Q 19	3Q 19	4Q 19	FY 2019	1Q 20	2Q 20G
Aerospace/Defense	0%	0%	0%	0%	0%	0%	0%
Automotive	5%	6%	3%	2%	4%	3%	6%
Cellular Phones	49%	40%	73%	65%	60%	56%	46%
Computing/Storage/Periph	28%	36%	14%	19%	22%	22%	23%
Medical/Industrial/Inst	7%	5%	2%	3%	4%	3%	12%
Networking/Communications	5%	5%	4%	6%	5%	6%	4%
Other	7%	7%	4%	5%	5%	10%	9%

# TTM, excluding Mobility, SZ & SH E-MS

End Markets	1Q 19	2Q 19	3Q 19	4Q 19	1Q 20	2G 20G
Aerospace/Defense	33%	36%	36%	37%	38%	38%
Automotive	17%	15%	15%	15%	13%	11%
Cellular Phones	0%	-1%	1%	0%	1%	0%
Computing/Storage/Periph	12%	12%	12%	13%	12%	14%
Medical/Industrial/Inst	16%	17%	18%	17%	18%	18%
Networking/Communications	20%	19%	16%	17%	16%	18%
Other	2%	2%	2%	1%	2%	1%

# Non-GAAP Reconciliations (TTM Consolidated)

\$ Millions (except where noted)	2015	2016	2017	2018	2019
GAAP Gross Profit	\$310.1	\$423.6	\$429.6	\$457.0	\$401.7
Inventory markup	16.2	_	_	4.9	_
Stock-based compensation	1.1	1.6	2.3	2.9	3.2
Amortization of intangibles	-	-	-	3.3	4.8
Non-GAAP Gross Profit	327.5	425.2	431.8	468.2	409.7
GAAP Operating Income Add back items:	61.3	173.5	212.8	159.1	120.1
Amortization of intangibles	18.9	24.3	23.6	63.0	53.3
Stock-based compensation	9.7	11.1	18.3	20.7	16.8
Impairment, restructuring, and acquisition-related charges	42.3	14.6	3.6	18.8	13.9
Inventory markup	16.2	-	-	4.9	-
Other infrequent items	(2.4)	(1.5)	(2.3)	-	-
Non-GAAP Operating Income	146.0	221.9	255.9	266.5	204.1
GAAP TTM Technologies Net Income (Loss) Add back items:	(25.9)	34.9	124.2	173.6	41.3
Amortization of intangibles	18.9	24.3	23.6	63.0	53.3
Stock-based compensation	9.7	11.1	18.3	20.7	16.8
Non-cash interest expense	15.6	19.2	11.1	14.8	14.3
Impairment, restructuring, acquisition-related, and loss on extinguishment of debt	43.1	62.3	4.3	19.3	13.9
Inventory markup	16.2	-	-	4.9	-
Other infrequent items	(2.4)	(1.5)	(2.3)	- (405.0)	(3.7)
Income tax effects	5.9	(8.0)	(12.1)	(105.9)	(15.3)
Non-GAAP TTM Technologies Net Income	81.1	142.3	167.1	190.4	120.5
Non-GAAP EPS (\$ per diluted share)	0.87	1.40	1.57	1.76	1.13
GAAP Net Income (Loss)	(25.6)	35.6	124.7	173.6	41.3
Add back items:	34.6	31.4	15.2	(02.0)	4.0
Income tax provision Interest expense	59.8	31.4 76.0	53.9	(83.8) 79.0	4.9 83.2
Amortization of intangibles	18.9	24.3	23.6	63.0	53.3
Depreciation expense	133.5	156.2	150.8	162.7	166.6
Stock-based compensation	9.7	11.1	18.3	20.7	16.8
Other infrequent items	(2.5)	(1.5)	(2.3)	-	(3.7)
Inventory markup	14.2	-	-	4.9	-
Impairment, restructuring, acquisition-related, and loss on extinguishment of debt	43.1	62.3	4.3	18.8	13.9
Adjusted EBITDA	285.7	395.4	388.6	438.8	376.2

Note: Numbers presented may not add up precisely to totals provided due to rounding.



# Mobility Business Unit non-GAAP Reconciliations

<b>Mobility Business Unit (thousands of</b>	dollars)						
		Q1 2019	Q2 2019	Q3 2019	Q4 2019	FY 2019	Q1 2020
Revenues <sup>1</sup>		83,755	106,161	182,644	183,538	556,098	113,174
Gross Profit <sup>1</sup>		(10,141)	(8,233)	18,576	24,304	24,506	4,749
GAAP Operating Income		(12,626)	(12,147)	15,229	20,036	10,492	1,441
Amortization of intangibles	5	674	674	675	675	2,698	675
Restructuring, acquisition-	related, and other charges	13	1,212	41	335	1,601	-
Non-GAAP Operating Income		(11,939)	(10,261)	15,945	21,046	14,791	2,116
GAAP Net Income		(11,433)	(7,433)	9,625	17,980	8,738	2,046
Income tax provision (bene	efit)	(1,919)	(3,418)	7,711	746	3,119	742
Interest expense (income)		553	317	145	132	1,147	223
Amortization of intangibles	5	674	674	675	675	2,698	675
Depreciation expense		18,063	17,848	18,688	18,605	73,204	18,260
Restructuring, acquisition-	related, and other charges	13	1,212	41	335	1,601	-
Adjusted EBITDA		5,951	9,200	36,884	38,473	90,509	21,946
Footnote: No GAAP to NON-GAAP ad	justments <sup>1</sup>						



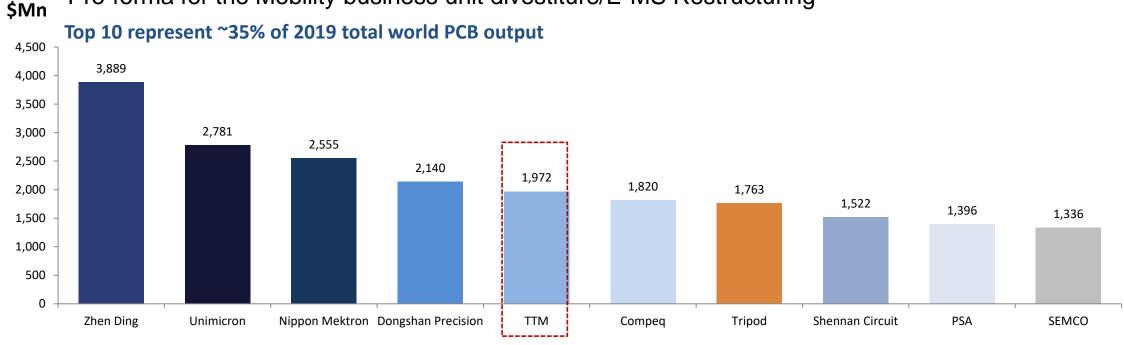
# SZ and SH-EMS non-GAAP Reconciliations

SH-EMS and SZ Results (thousands of dollars)						
	Q1 2019	Q2 2019	Q3 2019	Q4 2019	FY 2019	Q1 2020
Revenues <sup>1</sup>	36,036	40,923	54,494	29,814	161,267	14,203
Gross Profit <sup>1</sup>	2,985	3,438	5,163	2,380	13,966	(2,403)
GAAP Operating Income	1,936	1,230	4,283	1,962	9,411	(4,214)
Amortization of Intangibles	41	41	41	41	162	41
Non-GAAP Operating Income	1,977	1,271	4,324	2,003	9,574	(4,173)
GAAP Net Income	1,440	2,819	4,832	1,766	10,856	(5,987)
Income tax provision (benefit)	248	(545)	1,410	(329)	784	1,875
Interest expense (income)	9	40	89	72	210	(7)
Amortization of intangibles	41	41	41	41	162	41
Depreciation expense	754	755	762	798	3,069	743
Adjusted EBITDA	2,491	3,109	7,133	2,347	15,081	(3,336)
Footnote: No GAAP to NON-GAAP adjustments <sup>1</sup>						

# TTM Remains a Global Leader in the PCB Manufacturing Market

2019 Top 10 world PCB manufacturers by revenue (\$mn)

Pro-forma for the Mobility business unit divestiture/E-MS Restructuring



- Maintain advantages associated with sufficient scale
- Only US-based company in the Global Top 10
- Most diversified company in the Global Top 10 products and end markets
- Focus on high reliability and advanced technology PCBs combined with engineered product solutions allowing for early engagement with customers

