

# Technology Sector: Semiconductors

Team Members-Arya Chudasama Raunaq Rohile Nugo Brian Santo Romano Karl-Yann Assah Justin Dinardo Kamal Ghandour Hai Bui Nalin McConnachie

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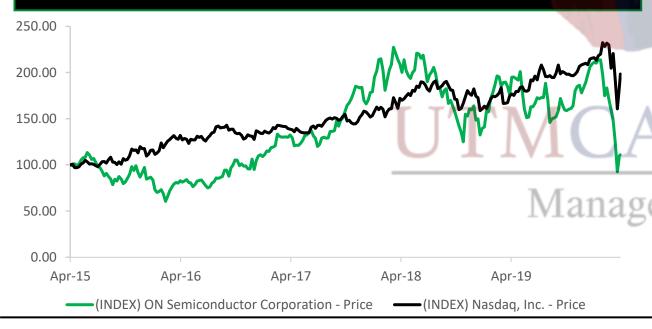
#### Highlights

- Provides a comprehensive portfolio of energy efficient solutions
- Helps customers solve their unique design challenges
- Empowers design engineers to reduce global energy use
- Operates a responsive, reliable world-class supply chain and quality program
- Maintains global environmental sustainability and social responsibility programs

#### Significant Events

- GT Advanced Technologies (GTAT) and ON Semiconductor, on March 17th, 2020 announced the execution of a five-year agreement, valued at a potential of \$50 million\*
- On March 16th, 2020, ON Semiconductor announced its accomplishment of receiving the IoT Star Award for the Most Influential IoT Sensor Company of 2019
- Named to Barron's 100 Most Sustainable Companies List for Third Consecutive Year (Top 15)

#### Share Price Performance (Indexed)



#### **Executive Management**



#### Keith D. Jackson

- President, Chief Executive Officer & Director
- 30+ years of semiconductor industry experience

#### Bernard Gutmann, CFO

- Executive Vice President and Chief Financial Officer
- 30+ years of financial planning and analysis experience



#### William A. Schromm

- Executive Vice President and Chief Operating Officer
- 30+ years of semiconductor industry experience



#### **Growth Drivers**

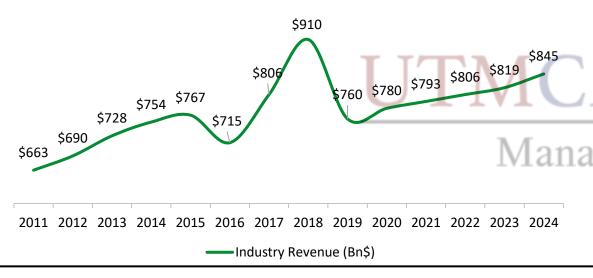
- Industry revenue is forecasted to increase faster at an annualized rate of 2.3% to a value of \$846.3 Billion over the next 5 years
  - 5.9% growth in 2020
- Growth of technology sector along with consumer electronics
  - Cell phones and other consumer electronics often replaced before becoming obsolete
  - AI-related semiconductors to grow from a current US\$6bn in revenues to more than US\$30bn by 2022; a compounded annual growth rate (CAGR) of almost 50%.

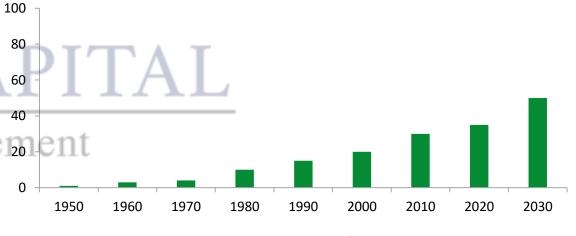
#### Industry trends

- IoT: Connected revolution- Semiconductors serve as the foundation for enabling emerging Internet of Things (IoT) technologies.
- Digital supply networks- Digitalization is transforming supply chains in every industry.
  - Companies should pay attention to solve issues of limited information transparency across the supply chain.
- Consolidation through M&A- Slow growth in individual segments.
  - M&A helps find new sources of revenue and reduced volatility through diversified portfolio.

#### **Industry Revenue**

#### **Electronics Cost of Total Car Cost Worldwide**



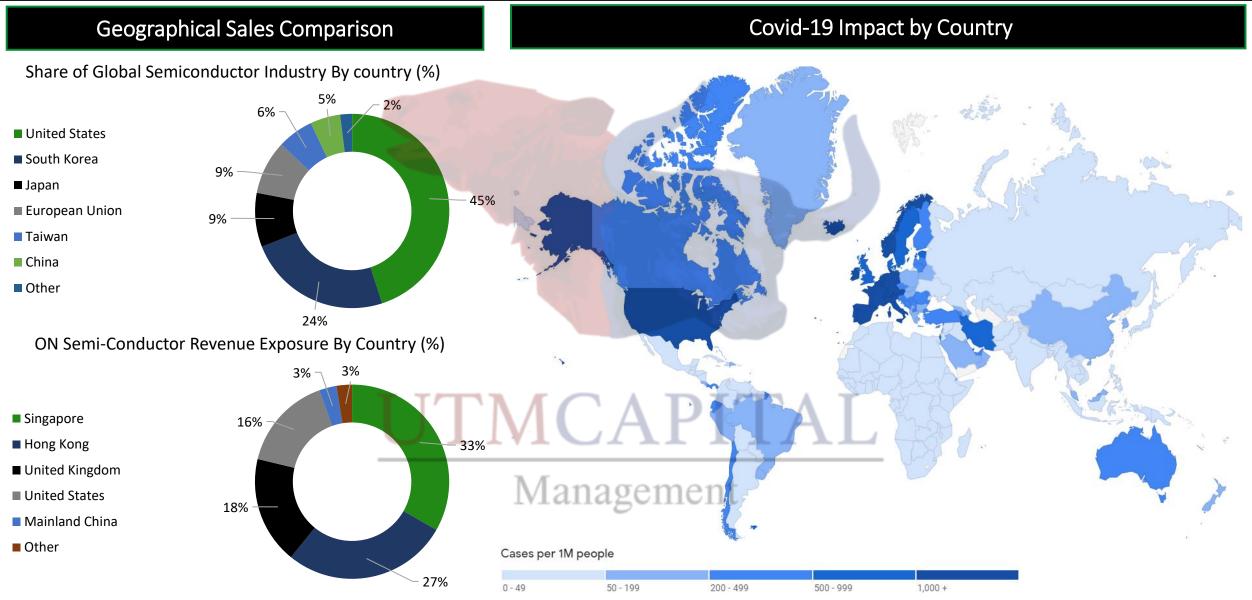


■ Automotive Electronics Cost as a Percentage of Total Car Cost Worldwide

## Macro Outlook: Covid-19







### Porter's Five Forces





#### Threats of New Entrances:

- Threats of new entrants are relatively low high barriers to entry
- This combination of factors dampens the threat of innovative players disrupting the industry structure

#### Bargaining power of Customers:

- Power of customers is medium
- The major customers are companies and government
  - Some buyers are big enough to affect the revenue; but this is not always the case, as the size of the buyers fluctuates every year

#### Bargaining power of Substitutes:

- Power of suppliers is **low**
- Number of suppliers is large
- Companies can choose from a pool of suppliers for their raw materials

#### Competitive Rivalry:

- The intensity of rivalry is very high
- Price, product quality, product and process technology, brands and timeliness of deliveries

#### Threat of substitutes

- Threat of substitutes is low
- Patents/legal barriers and technical complexity limit substitutes

Affected by access to latest technology, intellectual property and the level of investment

Major customers are companies and government

Porter's Five Forces Rapid
technological
advancements
essentiates the
need of
semiconductor
products

With a hightech industry, there are numerous suppliers who can easily be replaced

Seasoned companies have inherent competitive advantage

### **Core Business**

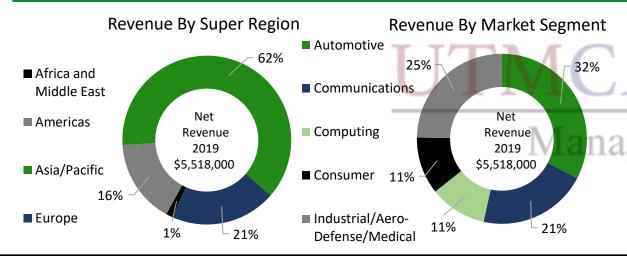




#### **Business Segment**

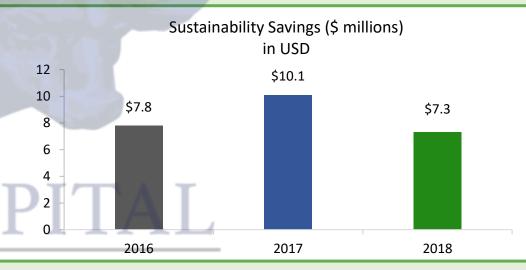
	Total Revenue(\$M)	% of Total Revenue	Operating Income(\$M)
Power Solution	2,788	51	976
Analog Solution	1,972	36	795
Intelligence Sensing	757	14	275
Total	5,518	100	2,046

#### **Revenue Distribution**



#### Cost Structure & Corporate Social Responsibility

- Industry leading cost structure
- Future outlook Make structural changes to manufacturing footprint to expand margins and further improve industry leading cost structure
  - Exploring the sale of its manufacturing facility in Oudenaarde,
     Belgium
  - Consolidate further and realize cost synergies



- CSR is a core value and is deeply integrated into their culture
- Full member of the Responsible Business Alliance (RBA) and signatory of the United Nations Global Impact
- Numerous efforts to reduce scope 1 and 2 emissions- lead to additional cost savings

# **Competitor Analysis**





**EV/Sales** 

1.36x

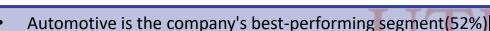
**EV/EBIDTA** 



- Automotive is the company's best-performing segment comprising of 32% of the revenue streams
- Strong track-record in Automotive, Industrial, and Cloud power markets
- Emerged as #2 player in power semiconductors and a credible alternative to the market leader
- Positioned for leadership in automated driving and vehicle electrification with industry's best sensor and power portfolio
- Comprehensive sensor, power management, motor control and connectivity solutions driving above market growth in industrial power and IIOT
- Robust growth in cloud power servers and 5G infrastructure with new solutions and significant power content increases
- Margin expansion through portfolio optimization and improving efficiency
- Strong revenue growth coupled with solid margin expansion and accelerating FCF

market growth in industrial power and IIOT content increases	6.10x
	P/E
	21.51x





- Leading MCU and SOC supplier
- No.1 memory interface supplier
- Technology leader in RF for 5G and massive MIMO
- Leading provider of both proprietary and ARM MCUs
- Continued electronic content growth
- Differentiated and scalable product offerings

EV/Sales
1.76x
EV/EBIDTA
9.95x
P/E
273.26x



Industry's broadest product portfolios of control products

Efficient R&D driving technological innovation

• 60% of revenue in industrial and automotive markets

Microcontroller market growth and market share gains

Opportunity to attach product to more customer application

- Wireless and wired connectivity solutions portfolio
- Growing and profitable technology licensing business
- Automotive market growth opportunities

EV/Sales 4.72x EV/EBIDTA

P/E

12.76x

25.33x

# THINK ON.

#### Recommendation

ON Semiconductor NASDAQ: ON

Target price: 21.90\$

UTMCAP

Management

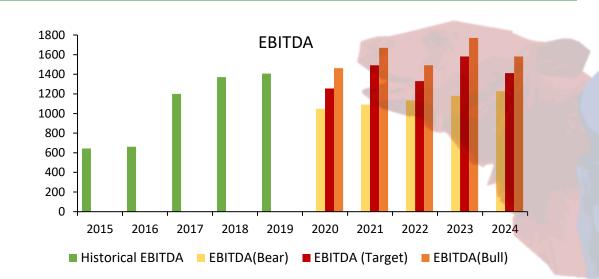
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# Financial Summary

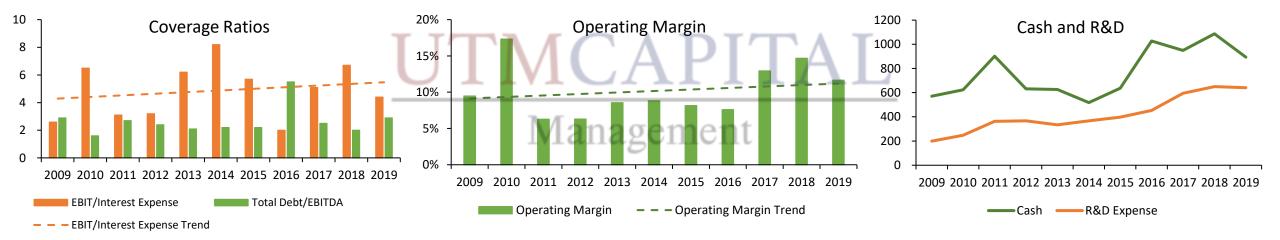


#### **Financials**



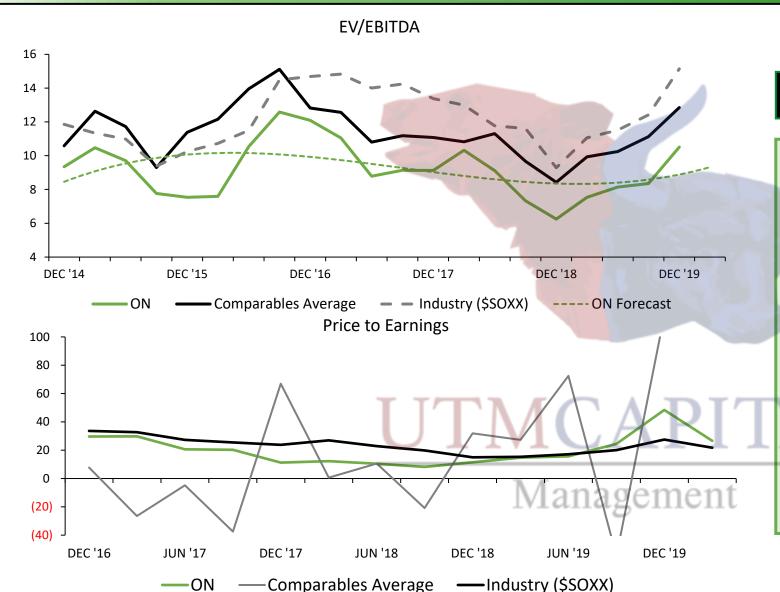
#### **Analysis**

- Cash balances as well as interest coverage have steadily increased over the past 10 years
  - ON's ability to cover its future debt obligations remain strong even amid the Covid-19 pandemic
- Though R&D has tripled, operating margins have gradually increased which is indicative of operational synergies and efficiencies in the production process
- The recent(March 24<sup>th</sup>) withdrawal from ON's revolving credit facility allows ON to not only have an extra \$894 million in cash to bolster liquidity, but to also have cash in hand for possible discounted acquisitions in 2020



# **Industry Financial Summary**





#### **Analysis**

- ON maintains an EV/EBITDA ratio which is both below its peers as well as the broader industry
- Though EV/EBITDA has increased from 2018, it is expected to drop considerably for Q1 2020
  - However, due to the fast-changing nature of the Covid-19 pandemic, an estimate of EV/EBITDA is omitted
- Though the semiconductor industry is relatively volatile, ON's volatility as measured by its P/E ratio, has been relatively stable over the past 3 years
  - It is also considerably less volatile than comparable companies
- Though not pictured, ON's revenue growth is relatively strong compared to its peers
  - Given the Covid-19 situation, there may be negative revenue growth for 2020 as is to be expected with many industries

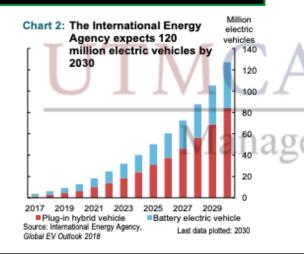


#### Low Risk, High Growth Opportunity

- Plan to cater to existing clients (low risk, internal growth) as well as focus on emerging high-growth opportunities (large reward, external growth)
- Exposure to high-growth area of the Automotive and IoT markets
  - Automotive industry accounts for approximately a third of revenues, and main drivers are developments for the EV/Hybrid sector which is poised for strong growth
- Develops innovations which utilize existing synergies, while also conducting acquisitions which maximize synergies to promote costsavings growth

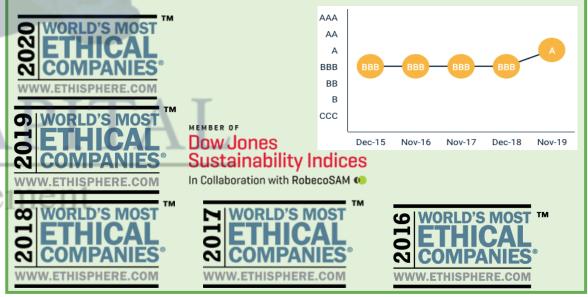
#### **Unique Revenue Exposure**

- Unique revenue profile that maintains minimal dependence on American or East-Asian markets
- Allows for a uniquely diversified semiconductor investment whose market share is not closely contended by other companies



#### **One of the World's Most Ethical Companies**

- Winner of the Ethisphere World's Most Ethical Company award for 5 consecutive years (2016-2020)
- Member of the North America Dow Jones Sustainability Index (DJSI)
- Awarded the highest ESG ranking of "1" by Institutional Shareholder Services (ISS)
- Allocation of 5.29% in the First Trust NASDAQ Clean Edge Green Energy Index Fund (QCLN)
- Recently upgraded ESG rating by MSCI, while comparable companies have been downgraded
- Possible long-term ESG fund interest



# **Valuation Summary**



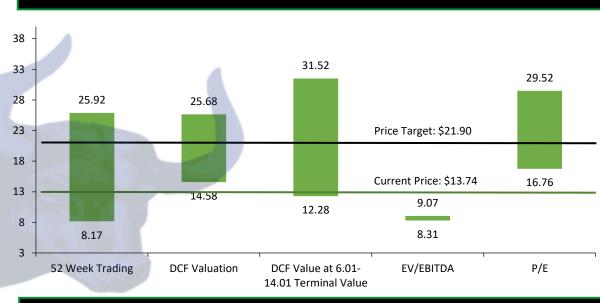




#### Recommendation

- The target price is based on a 10% decline in 2020 earnings (due to Covid-19) and subsequent volatile growth amassing to a net growth 20% over 5 years (relative to 2019 EBITDA)
- ON's current EV/EBITDA is currently 6.10x, while the industry average is 10.01x
- Assumptions related to the Covid-19 pandemic are embedded into the model, and it is recommended to re-evaluate the valuation based on Q1 and Q2 results

#### **Football Field Analysis**

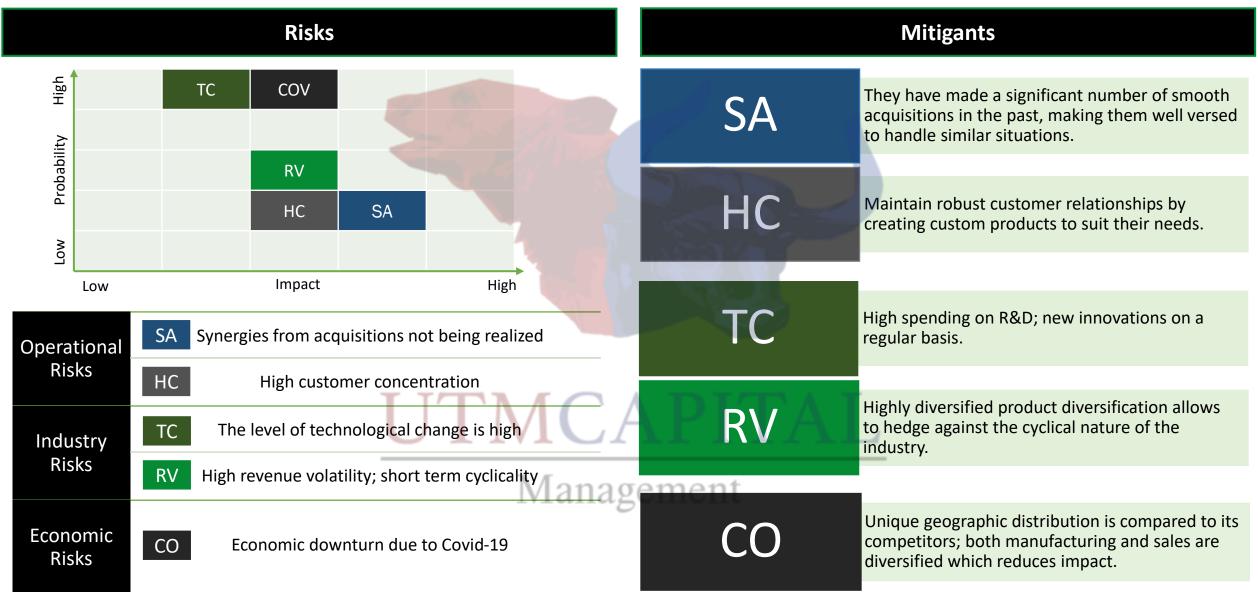


#### **Sensitivity Analysis**

	_	/\			Implie	ed Share Pi	rice			
			<b>\</b> I	,		WACC				
-	\$21.90	7.1%	8.1%	9.1%	10.1%	11.1%	12.1%	13.1%	14.1%	15.1%
	6.01	\$15.67	\$14.75	\$13.88	\$13.06	\$12.28	\$11.54	\$10.84	\$10.17	\$9.54
ne	7.01	\$18.55	\$17.51	\$16.52	\$15.58	\$14.69	\$13.84	\$13.04	\$12.28	\$11.55
\rac{\alpha}{a}	8.01	\$21.44	\$20.26	\$19.15	\$18.09	\$17.09	\$16.14	\$15.24	\$14.38	\$13.57
<u>a</u>	9.01 \$24.33 \$23.02	\$21.78	\$20.61	\$19.50	\$18.44	\$17.44	\$16.48	\$15.58		
Ternimal Value	10.01	\$27.22	\$25.78	\$24.41	\$23.12	\$21.90	\$20.74	\$19.64	\$18.59	\$17.59
<u>a</u>	11.01	\$30.10	\$28.53	\$27.05	\$25.64	\$24.30	\$23.04	\$21.83	\$20.69	\$19.61
	12.01 \$32.99 \$31.29	\$29.68	\$28.15	\$26.71	\$25.34	\$24.03	\$22.80	\$21.62		
	13.01	\$35.88	\$34.05	\$32.31	\$30.67	\$29.11	\$27.63	\$26.23	\$24.90	\$23.64
	14.01	\$38.77	\$36.80	\$34.94	\$33.18	\$31.52	\$29.93	\$28.43	\$27.01	\$25.65

# Risks and Mitigants





# Catalysts



#### **Acquisitions**





#### **Past Acquisitions**





#### **Acquisition of Quantenna**

- Global Penetration: Allows ON to expand market share in North America.
- Filling The Gaps: Helps expand its position in the IOT market and gain access to the Wi-Fi market as Quantenna is a global leader in Wi-Fi solutions.
- **Economies Of Scale:** Increased scale leads to lower COGS, SG&A; Operational synergies of \$26 million will be realized (Quantenna's total operating expenses on \$106.6 million in 2018).
- All else considered, this deal is expected to expand ON's served addressable market (SAM) by \$4.3 billion by 2022.
- East Fishkill fabrication facilities (Finalized in 2022)
- Expand US production capacity by 24%.
- The addition of the computer chip manufacturing facility will provide increased level of capability and capacity to meet critical market needs by their clients.

#### **Rapid Innovation and Flexibility**



- ON collaborates with their existing customers and caters designs to what they are looking for.
- This allows them to guickly meet demand for products which their customers want.
- Example- ON Semiconductor shipped 100 Million Image Sensors for Camera-based ADAS Systems in Support of Customers Like Subaru.



- ON Semiconductors R&D expenditure has been growing YoY.
- Results are reflected through recent innovations like the new USB-C Power Delivery (PD) 3.0 Devices that provides market-leading solutions for power adapter and battery charger applications.



# THINK ON.

#### Recommendation

1 1 Miles

ON Semiconductor NASDAQ: ON Buy at 21.90

UTMCAP

Management

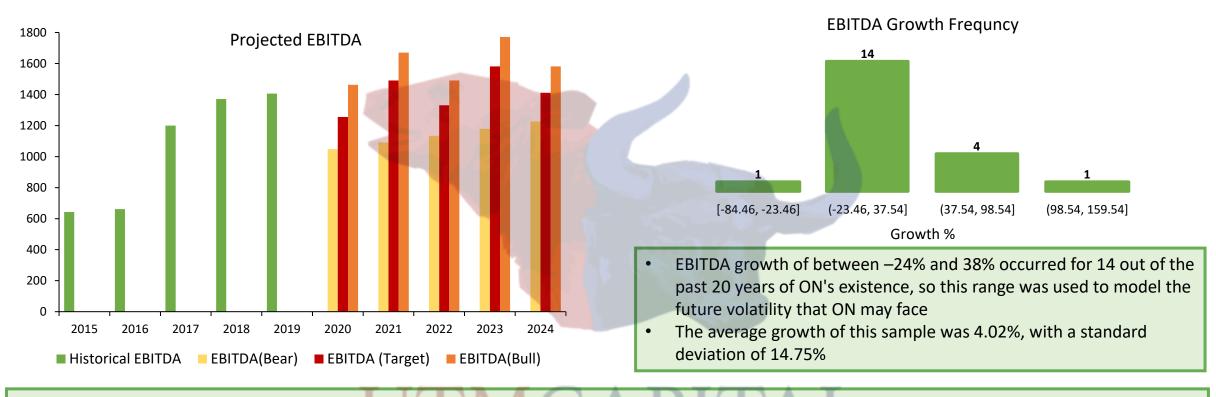
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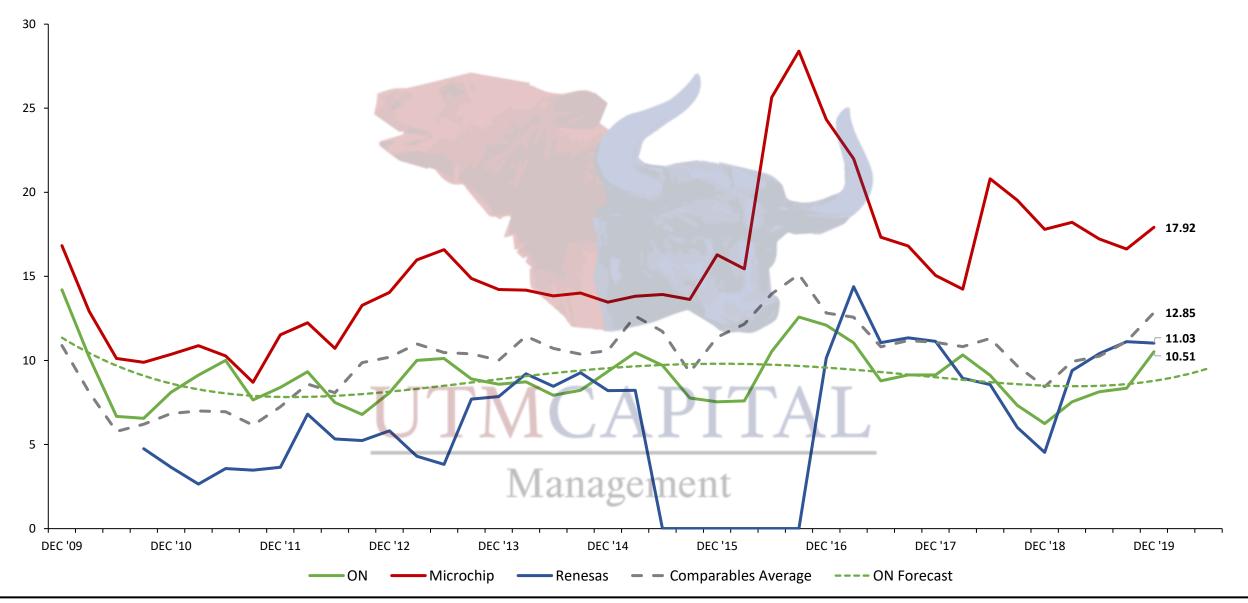
# **EBITDA Estimation and Projection**



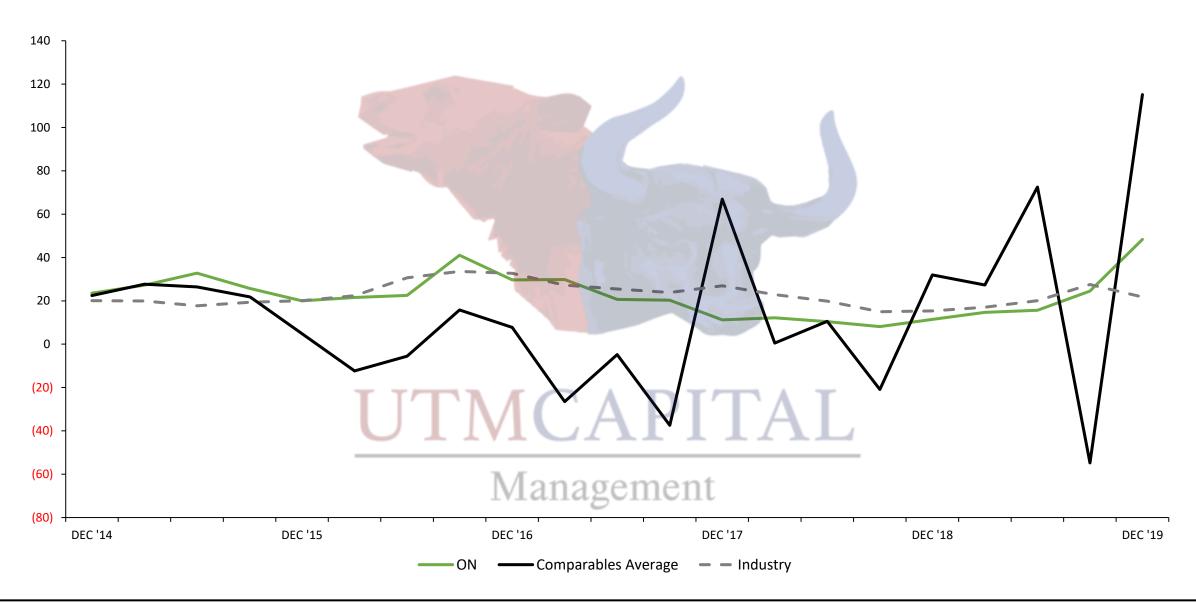


- Due to the volatile nature of the semiconductor industry, a statistical estimation of EBITDA was used
  - Due to past volatility and Covid-19, making specific assumptions about sales and costs reduce the robustness of estimates
- The Bear case represents a case where there is a –2 standard deviation shock for 2020 (due to Covid-19), followed by average growth from 2020 levels (that is no recovery to pre-Covid-19 EBITDA levels)
- The Target case represents a case where there is only a –1 standard deviation shock, followed by average ±1 standard deviation volatile growth from 2020 levels (no pre-Covid-19 recovery)
- The Bull case represents a case where Covid-19 has little to no material impact on EBITDA, and there is ±1 standard deviation volatile growth from 2019 levels (that is there is a recovery to pre-Covid-19 levels)









#### ON Semiconductor®

# **DCF** Analysis



ON Semiconductor											
Discounted Cash Flow Analysis	Historical					Projected					
Operating Results	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Terminal
EBIT	\$285.40	\$297.10	\$718.00	\$862.80	\$643.80	\$926.54	\$1,148.99	\$975.22	\$1,210.80	\$1,026.25	5 \$1,237.3
Tax Rate	22%	22%	22%	22%	22%	22%	22%	22%	22%	22.0%	6 22.0%
EBITDA	\$643.00	\$661.20	\$1,199.90	\$1,371.50	\$1,406.40	\$1,255.48	\$1,491.16	\$1,331.15	\$1,581.04	\$1,411.37	7 \$1,676
Less: Tax Paid	(					\$203.84	\$252.78	\$214.55	\$266.38	\$225.78	8 \$272.20
Less: Capital Expenditures	1					\$599.12	\$639.37	\$682.84	\$729.85	\$780.69	9 \$822.31
Less: Increase in NWC	1					(\$114.77)	\$179.23	(\$121.68)	\$190.03	(\$129.02)	\$193.19
Unlevered Free Cash Flow	(					\$567.29	\$419.79	\$555.44	\$394.78	\$533.92	2 \$388.62
WACC	11.1%									,	1 '
Discount Period	<u></u>					1	2	3	4	5	<u>/  - '</u>
Present Value of Free Cash Flow/Terminal Value	1					\$ 510.39	\$ 339.81	\$ 404.51 \$	\$ 258.68	\$ 314.76	\$ 4,248.32
Assumptions						A					
Revenue Growth (%)	10.56	11.76	41.88	6.05	(6.13)	(10.0)	33.0	(10.0)	10.0	(10.0)	2.0%
EBITDA Growth (%)	17.42	2.83	81.47	14.30	(9.81)	(10.0)	33.0	(10.0)	10.0	(10.0)	2.0%
Tax Rate	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	6 22.0%
Working Capital (% of Sales)	16	23	15	13	19	19.38	19.38	19.38	19.38	19.38	19.38
Capital Expenditures (% Sales)	-	32.0	10.9	13.3	13.5	12.16	10.92	13.07	11.76	14.09	13.50
Discount Rate	4.7%	4.7%	4.7%	4.7%	4.7%	4.7%	4.7%	4.7%	4.7%	4.7%	6 4.7%
Long Term FCF Growth Rate	2%	2%	2%	2%	2%	2%	2%	2%	2%	6 2%	6 2%

Implied Enterprise Value			
Cumulative Present Value of FCF	\$	1,828.15	
PV of TV	\$	2,504.47	
Enterprise Value	\$	4,332.61	,
Enterprise Value	_	. T A .	
Cumulative Present Value of FCF	\$	1,828.15	
Terminal Value (Perpetuity)	\$	4,248.32	/III
Terminal Year EBITDA	\$	1,676.32	lana
Exit Multiple		10.01	LULLU
Terminal Value (Multiple)	\$	16,780.00	
Discount Factor	\$	0.59	
Present Value of Terminal Value	\$	9,892.12	
% of Enterprise Value	\$	0.84	
Enterprise Value	\$	11,720.27	

Implied Equity Value and Share Price	
Enterprise Value	\$ 11,720.27
Less: Total Debt	\$ 3,612.50
Less: Preferred Securities	\$ -
Less: Noncontrolling Interest	\$ -
Plus: Cash and Cash Equivalents	\$ 894.20
Implied Equity Value	\$ 9,001.97
Number of Shares	411,065,636
Implied Share Price	\$21.90





WACC Calculation	
Target Capital Structure	
Debt-to-Total Capitalization	52.50%
Equity-to-Total Capitalization	47.50%
Debt-to-Equity Ratio	1.1
Cost of Debt	
Cost of Debt	4.40%
Tax Rate	22.00%
After-tax Cost of Debt	3.4%
Cost of Equity	
Risk-free Rate <sup>(1)</sup>	0.33%
Market Risk Premium(2)	10.00%
Levered Beta	1.93
Size Premium	0
Cost of Equity	19.7%
WACC	11.1%

Unlevered Beta							
	Predicted	Market	Market	Debt/	Corporate	Unlevered	EV/EBITDA
Company	Levered Beta	Value of Debt	Value of Equity	Equity	Tax Rate	Beta	Multiple
NXP	1.41	7600	9400	0.81	25.00%	0.88	12.47
Qorvo	1.12	1600	4300	0.37	21.00%	0.87	10.40
Micron	1.6	6200	36500	0.17	21.00%	1.41	4.87
Intel	1.2	29700	77500	0.38	21.00%	0.92	7.50
AMD	1.63	700	2800	0.25	21.00%	1.36	59.70
Texas Instruments	1.25	6100	8900	0.69	21.00%	0.81	14.81
							(3)
Mean	1.37			44.5%		1.04	10.01
Median	1.33			37.8%		0.90	11.44

Relevered Beta	MACA DI				
UI	MUAPI	Mean	Target	Target	
		Unlevered	Debt/Equity	Tax	Relevered
	Managemen <u>t</u>	Beta	Ratio	Rate	Beta
Relevered Beta		1.04	110.0%	22.0%	1.93

- (1) 3 month treasury yield(2) Historical CAGR of S&P500
- (3) Omits AMD to better align with median

# **Net Working Capital**



		Historical Peri	od				Projection Period					
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Terminal
Scenario 1	Sales	\$3,495.80	\$3,906.90	\$5,543.10	\$5,878.30	\$5,517.90	\$4,111.79	\$4,277.12	\$4,449.09	\$4,627.97	\$4,814.05	\$5,006.61
	Cost of Goods Sold	\$2,427.90	\$2,708.70	\$3,626.30	\$3,751.30	\$3,659.50	\$3,805.88	\$3,958.12	\$4,116.44	\$4,281.10	\$4,452.34	\$4,630.43
Scenario 2							\$4,925.78	\$5,850.46	\$5,222.65	\$6,203.07	\$5,537.42	\$6,534.15
							\$4,025.45	\$4,428.00	\$4,870.79	\$5,357.87	\$5,893.66	\$6,483.03
Scenario 3		4					\$5,739.76	\$6,553.74	\$5,850.46	\$6,948.73	\$6,203.07	\$7,319.62
							\$4,025.45	\$4,428.00	\$4,870.79	\$5,357.87	\$5,893.66	\$6,483.03
		· `										
	Current Assets											
Scenario 1	Accounts Receivable	\$456.10	\$629.80	\$701.50	\$686.00	\$705.00	\$525.35	\$546.47	\$568.44	\$591.30	\$615.07	\$639.67
Scenario 1	Inventories	\$750.40	\$1,030.20	\$1,089.50	\$1,225.20	\$1,232.40	\$918.35	\$955.28	\$993.69	\$1,033.64	\$1,075.20	\$1,118.21
Scenario 1	Prepaid Expenses and Other	\$47.80	\$181.00	\$193.00	\$169.50	\$188.40	\$140.39	\$146.04	\$151.91	\$158.01	\$164.37	\$170.94
Scenario 1	Total Current Assets	\$1,254.30	\$1,841.00	\$1,984.00	\$2,080.70	\$2,125.80	\$1,584.09	\$1,647.78	\$1,714.03	\$1,782.95	\$1,854.64	\$1,928.82
	Current Liabilities											
Scenario 1	Accounts Payable	\$337.70	\$434.00	\$548.00	\$671.70	\$543.60	\$405.08	\$421.36	\$438.31	\$455.93	\$474.26	\$493.23
Scenario 1	Accrued Expenses	-	\$30.00	\$29.90	\$38.20	\$22.50	\$16.77	\$17.44	\$18.14	\$18.87	\$19.63	\$20.42
Scenario 1	Other Current Liabilities	\$358.20	\$484.80	\$582.90	\$620.90	\$490.20	\$365.28	\$379.97	\$395.25	\$411.14	\$427.67	\$444.78
Scenario 1	Total Current Liabilities	\$695.90	\$948.80	\$1,160.80	\$1,330.80	\$1,056.30	\$787.13	\$818.77	\$851.70	\$885.94	\$921.56	\$958.42
					, ,							
Scenario 1	Net Working Capital	\$558.40	\$892.20	\$823.20	\$749.90	\$1,069.50	\$796.96	\$829.01	\$862.34	\$897.01	\$933.08	\$970.40
Scenario 2						$\Delta$ $\nu$	\$954.73	\$1,133.96	\$1,012.27	\$1,202.30	\$1,073.28	\$1,266.47
Scenario 3				IVI			\$1,112.50	\$1,270.27	\$1,133.96	\$1,346.83	\$1,202.30	\$1,418.72
	% sales	15.97%_	22.84%	14.85%	12.76%	19.38%	19.38%	19.38%	19.38%	19.38%	19.38%	19.38%
				70.0	-							
Scenario 1	(Increase) / Decrease in NWC	-	\$333.80	(\$69.00)	(\$73,30)	\$319.60	(\$272.54)	\$32.04	\$33.33	\$34.67	\$36.07	\$37.32
Scenario 2				T.A.	current		(\$114.77)	\$179.23	(\$121.68)	\$190.03	(\$129.02)	\$193.19
Scenario 3							\$43.00	\$157.77	(\$136.31)	\$212.87	(\$144.53)	\$216.41
	<u>Assets</u>	<u>Liabilities</u>					*	,	(,,	7	(+	,,

<u>Assumptions</u>

Assets
AR/Sales % = 12.78%
Inventory/Sales % = 22.33%
Other/Sales % = 3.41%

Liabilities
AP/Sales % = 9.85%
AE/Sales % = 0.41%
Other/Sales % = 8.88%

# **Capital Expenditures**



		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	PPE	\$1,274.10	\$2,159.10	\$2,279.10	\$2,549.60	\$2,701.80	\$2,971.98	\$3,269.18	\$3,596.10	\$3,955.71	\$4,351.28
	Change in PPE	-	\$885.00	\$120.00	\$270.50	\$152.20	\$270.18	\$297.20	\$326.92	\$359.61	\$395.57
	Current Depreciation	\$357.60	\$364.10	\$481.90	\$508.70	\$593.10	\$328.94	\$342.17	\$355.93	\$370.24	\$385.12
	Cap Ex		\$1,249.10	\$601.90	\$779.20	\$745.30	\$599.12	\$639.37	\$682.84	\$729.85	\$780.69
1	Revenue	\$3,495.80	\$3,906.90	\$5,543.10	\$5,878.30	\$5,517.90	\$4,111.79	\$4,277.12	\$4,449.09	\$4,627.97	\$4,814.05
2							\$4,925.78	\$5,850.46	\$5,222.65	\$6,203.07	\$5,537.42
3							\$5,739.76	\$6,553.74	\$5,850.46	\$6,948.73	\$6,203.07
1	CapEx/Revenue %	-	32.0%	10.9%	13.3%	13.5%	14.6%	14.9%	15.3%	15.8%	16.2%
2		-	т	TOTA		A TOT	12.2%	10.9%	13.1%	11.8%	14.1%
3		-				API	10.4%	9.8%	11.7%	10.5%	12.6%
						Y Y Y	TAY.				

Management