

Micron

For the Celani Fund, Dated: 9/20/21

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Outline









Business Overview



Business Strategy



Industry Overview



Ratio Analysis



Valuation



Conclusion

Investment Summary



Recommendation:

Buy \$75,000

Valuation Price: \$88.67

Thesis:

- Industry has a long growth pipeline
- Industry consolidation creates pricing advantages.
- Micron trades significantly lower than competitors

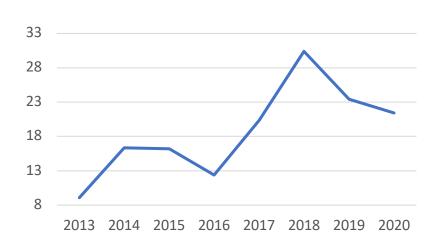
MU Market Data				
Price	72.37			
Shares Outstanding	1,125.8			
Market Cap	81.47B			



Business Overview



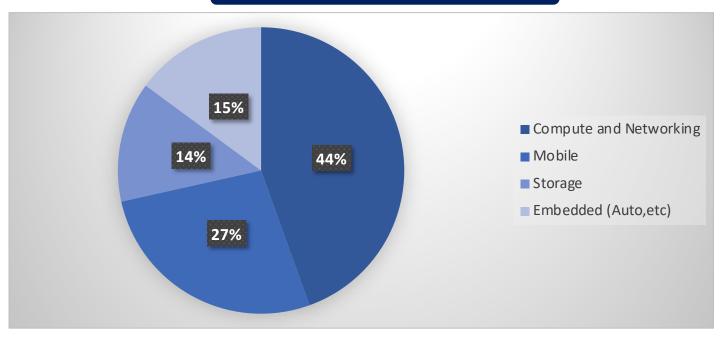
Revenue Growth



Boise, ID



Revenue Breakup











Investment Summary

Business Overview Industry Overview Financial Analysis

Valuation & Investment Risks

Business Strategy



- Continue optimizing margins while preparing for the next generation of memory chip technology
- Expand through automotive, server, and mobile markets
- ➤ Continue heavily investing in core business growth while paying out 55% of Free Cash Flow after CAPEX

Long-term DRAM bit demand growth CAGR

≈14-18%

Unmet supply of DRAM and NAND in 2021. Market expected to be as tight in 2022

Long-term NAND bit demand growth CAGR

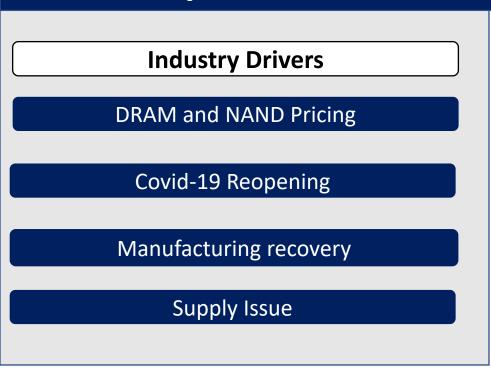
≈30%

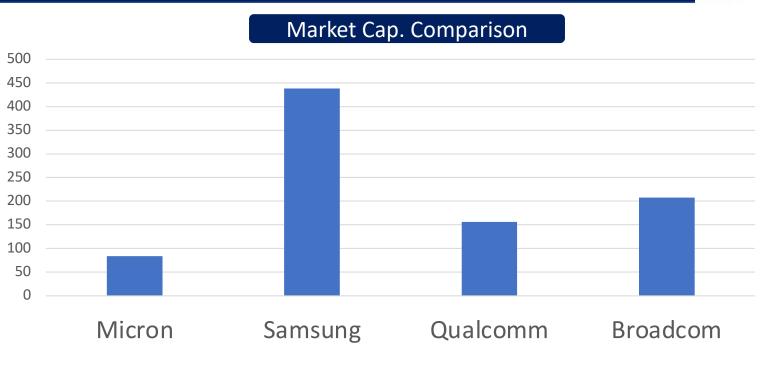
Key Drivers and Risks

- Cloud Computing and IOT Growth
- Industry Consolidation and New Supply Discipline
- Strong Long-Term Demand Growth
- Risk: CAPEX Intensive
- Risk: Pricing Volatility
- Risk: COVID Supply Chain Disruptions

Industry Overview







- > DRAM and NAND trade like a commodity, pricing is sensitive
- ➤ Price fluctuations can cause revenue to change dramatically.
- ➤ In 2021 the industry failed to meet demand requirements.
- Economic recovery overall will improve increase business CAPEX therefore keeping demand high.
- Manufacturing recovery(ex. Automobile) means more upside for Micron.

Ratio Analysis





Company	EBITDA(Millions)
Samsung	\$ 67,424
Broadcom	12,830
Qualcomm	11,835
Micron	8,679

Ratio Analysis



Liquidity	Samsung	Broadcom	Qualcomm	Micron	Average
Current Ratio	2.64	2.40	1.72	3.40	2.54
Quick Ratio	2.17	2.23	1.45	2.57	2.11
EBIT/Interest	86.63	3.99	17.64	24.69	33.24
Debt/Equity	.058	1.65	1.67	.15	0.88

Earnings Multiples	Samsung	Broadcom	Qualcomm	Micron	Average
EPS	1.24	13.49	8.00	3.63	6.59
P/E	16.26	37.50	16.72	16.81	21.82
P/B	1.91	8.56	18.43	1.98	7.72
EV/EBITDA	5.37	16.78	12.32	7.74	10.55

Valuation- DCF



Terminal Value					
Numerator	6015				
Denumerator	4.95%				
Terminal Value	121545				
Present Value of Terminal Value	86855				
Add First Five Years	11985				
Enterprise Value	98840				
Less: Net Debt	(981)				
Equity Value	99821				
Price Per Share	88.67				

➤ NOPAT calculated using average tax rate from 2018-2020 fiscal year.

Long term growth rate: 2.00%

Net reinvestment rate: 29.00%

> ROIC: **7.79**%

Accepted

Implied Valuation: \$88.67/Per Share

Suggested: 22.5% Undervalued

	Weighted Average Cost of Capital						
	88.67	6%	6.50%	6.95%	7.50%	8.00%	
Rate	1.00%	90.9	81.9	75.2	68.3	63.0	
	1.50%	100.0	89.3	81.3	73.3	67.1	
owth	2.00%	111.3	98.2	88.7	79.1	72.0	
بَ	2.50%	126.0	109.4	97.6	86.2	77.8	
15	3.00%	145.5	123.7	108.9	94.8	84.7	

Valuation: EBITDA Multiple



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Accepted

- **≻**P/E trades below peer average
- **▶**P/B and EV/EBITDA trade below peer average
- > Confirms status as undervalued

Entry and Exit Strategy



Current Price: \$72.37 Valuation Price: \$88.67

Entry

- Buy \$75,000 worth of shares at the current market price
- Option to add more shares on a significant market pullback

Exit

- Sell 50% if stock reaches valuation
 price of 88.67 in the next 12 months,
 another 50% if stock reaches 97.53
- Liquidate position if share price falls below \$45 or significant downside changes occur in the DRAM market

Conclusion



Current Price: \$72.37 Valuation Price: \$88.67

- Stock has pulled back significantly
- Strong, established company with positive cashflows
- Most current risks are positive for growth
- Industry is high growth with memory usage expected to rise
- Undervalued compared to competitors
- Valuation shows strong value at this price

Investment Recommendation **Buv**