Henry McKinney, Analyst, Golden Flyer Investment Fund February 16, 2022



Key Metrics

Intrinsic Value Estimate: \$130.00 Price (February 22nd, 2022): \$90.57

52 Week Range: \$65 - \$98 Shares Outstanding (B): 112 Market Cap (B):107.5

ROIC 23.35%

TTM Ratio Highlights

Price/EPS: 12x EV/EBIT: 6.61x ROE: 14.1%

PM: 21.1%TAT: 0.49Leverage: 1.36x

LTM Financials

Revenue Growth 34.24% Gross Profit Margin: 46.38% EBITDA Margin: 56.46% EBIT Margin 34.72% Net Income 30.00% EPS Growth 144.30%

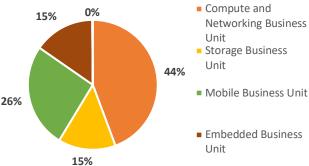
Executive Summary and Recommendation

Micron Technology, Inc. (MU) is one of the world's largest semiconductor manufacturers. It supplies semiconductor chips for an array of technological uses from data centers, PCs, and graphics, to mobile and intelligent devices like smart homes. Approximately 70% of Micron's revenues came from cloud server and mobile device clients. Geographically, approximately 43% of revenues came from the U.S. and 24% came from Taiwan, for a total of 67%. I believe Micron is undervalued because the market (1) has been overlooking it for higher growth peers, (2) underestimates Micron's future earning's potential and, (3) fails to recognize Micron's strategic industry positioning. Through my research, I've arrived at a conservative 12-month price target of \$130.00, representing a 31% potential upside from the closing price of \$90.57 on February 22,2022; I recommend a maximum buy stake of 5%.

Figure 1) L6Y Revenue Growth



Figure 2) Revenue by Business Segment



Company Overview

Micron manufactures and designs semiconductor chips, vital for for memory and storage solutions in an array of technologies across industries. Headquartered in Boise, Idaho, the company has more than 44 years industry experience. Many of Micron's operations occur internationally in countries such as Taiwan, Singapore, Japan, China, India, and Malaysia. Micron has three primary end markets: 1) Data Center which encompasses IT enterprises, 2) PC and Graphics which encompasses computer visuals and processing, and 3) Mobile and Intelligent Edge which encompasses 5G and smart devices, automotive, and industrial IoT. In FY2021 Micron did \$27B in revenues.

Investment Thesis

1. Micron is a value play in a growing industry.

Over the past five years, we have seen the stocks of companies like Nvidia (NVDA) and Advanced Micro Devices (AMD) 10x in value while Micron has humbly grown 4x. AMD and NVDA's moves can be justified by their high trailing revenue CAGRs (98% for AMD and 48% for NVDA), their high ROIC (both upwards of 40%), and their high profit margins (both upwards of 20% or more). Additionally, over the past five years Micron's EPS has had a CAGR of 3.9%. However, the market has become overexuberant on the peers mentioned, and has completely overlooked Micron's fundamentals. Micron's P/E has traded for around 12, more than half the industry average of ~25, and its ROIC is moving towards the 20% mark. In short, its current stock price is a discount to its intrinsic value, even for its L5Y of earnings. Over the next 5 years, the market still has not priced in its potential growth.

2. Micron is poised to see explosive growth over the next five years.

Micron is positioned to benefit from the global supply chain shortage that's hitting the chip market. In addition to a shortage, the industry is expected to see explosive growth through at least 2027. The semiconductor space operates in ebbs and flows. Currently, the industry is in a large supply ebb. However, demand is stronger than ever. The industry saw annual revenues above \$500b for the first time in 2021. With an influx of cloud services, EV's, smart devices, and increased need for data storage and processing, the semiconductor space is a critical piece to the supplying the worlds digital transition. The WSJ estimates that before 2030 industry revenues will top \$1t annually. Moreover, Refinity Smart Data estimates that the industry's base 5-year earnings CAGR will be \sim 15%. Micron should be able to amply

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mitigate normal supply chain bottle necks as they are currently stocking inventory and predicting that the second half of 2022 brings a strong uptick in demand. As of now, the market is pricing Micron to only grow at 8% annually, I see anywhere from 15%-18% over the next 5 years which should pull the stock price to new highs.

3. Micron is strategically positioned to maneuver chip shortage.

Micron is a low leverage, cash heavy company in an expanding industry. Micron's continuous investment in R&D is paying off as its ROIC is steadily increasing. Moreover, the company is spending \$150B over the next decade to increase chip output. Micron is increasing inventories, and as of Q1 2022, Micron's TTM average inventory days is at 109. This is crucial in an environment where many American businesses have come down to only as little as a forty-day supply of chips. Micron's solid supply should strengthen its credibility with customers. Since \sim 75% of revenues come from volume-based annual agreements, these relationships are key to success in the industry. That should enable Micron to gain crucial market share during the next 3-5 years as the industry is sees its highest growth ever.

Key Risks and Assessments

1. Macroeconomic and Beta risk

Micron's stock price has underperformed its American peers in the past five years. Because of this, it's traded at depressed multiples. However, in the past year, the stock saw an upward price movement of \sim 40% over six months. Many of its peers could be considered overvalued, and many equities outside of the sector are trading at steep multiples. Additionally, interest rates are low, and the CPI is running at its hottest in recent years at 7.5% (January 2022). The federal reserve is planning to hike rates in March and end economic stimulus. If they aren't careful, they could shock the market and Micron' stock, with a beta of 1.19, could see a steep decline. Probability: 5% Valuation Impact:- \sim -30%

2. Supply Chain Issues Hit Micron

As of now Micron is increasing its inventories in preparation for increased demand volume starting in the second half of 2022. Many countries including Russia and Ukraine have necessary input materials such as industrial gasses crucial to the creation of the silicon wafers. These wafers which are disks containing a multitude of chips, take about two to three months to make. After being made the chips need to be tested, cleaned, a repackaged. The consequences of these events can push production times back by months and have the potential to eat away at margins. Probability: 10% Valuation Impact: $\sim -15\%$

Bull

Probability 25%

12 month target: \$150

Major risks subside and the semiconductor industry grows at 14% per year. Micron's revenue grows between industry pace and 20% over next three-five years.

Scenario Analysis

Base

Probability 50%

Anticipated risks occur, but Micron. navigates supply issues, minimizing damage. Revenues grow at CAGR of 14% annually in line with the industry.

Bear

Probability 25%

Anticipated risks occur. Initial magnitude severely damages equity market price. Re-evaluation of the industry and micron supply chain necessary to gauge new growth prospects.

12 month target \$130

6 month target \$66 12 month target \$94

Figure 3) Risk Matrix

Red -Most Impact

Yellow-Med impact

Green- Least Impact

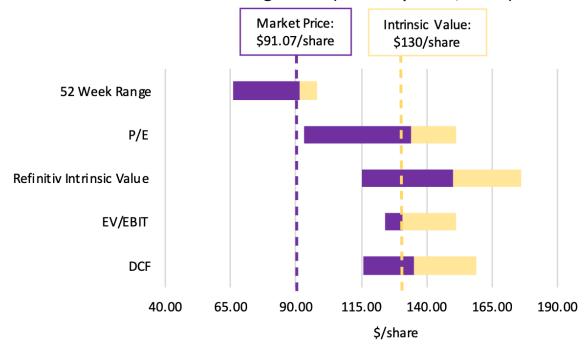
Nat Gas	Rate Hike	War Related	Loss of					
Shortage	Market	Supply	Major					
Innovation	Govts Fund	Issues	Customer					
Failure	Competitors	DRAM Price Instability						
		Chinese Free Market						
Mobile Sa	ales Slow	Restri	ctions					

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Valuation





DCF Sensitivity Analysis

			Re	venue Growth Ra	ate	
		12.00%	13.00%	15.00%	17.0%	18.00%
	10.40%	139	140	143	146	147
	11.00%	131	132	135	137	139
WACC	11.32%	127	128	131	133	135
	12.00%	120	121	123	126	127
	12.40%	116	117	120	122	123

Comparable Multiples Analysis:

Current Multi	ples	EV/E	BITDA			EV/	EBIT		Price/Earnings				
Peer Group	# of peers	Average	Median		Average		Median		Average N	∕ledian			
US Based	7	21.8	3	13.6		27.8		19.1	31.9	22.8			
International	3	17.6	i	17.6		23.9		23.9	26.7	26.7			
Forecast Mult	tiple	7	7.5			12	2.0		15.0	0			
Metric 2022		19	471			120	043		8.4				
EV * Multiple		14	6035			144	512						
Market cap	•		147635			146	112						
Share Price 2	022	1	132			131				126			

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APPENDIX

Proforma Income Statement:

Income Statement	FY2016	FY2017	FY2018	FY2019 FY2	020	FY2021	FY2022E	FY2023E	FY2024E	FY2025E	FY2026E	Assumptions
Revenue	12,399	20,322	30,391	23,406	21,435	27,705	3269	38576	44363	50574	57148	Industry Growth, Guidence, Refinitiv Estimates
Revenue Growth %	-23.4%	63.9%	49.5%	-23.0%	-8.4%	29.3%	18.09	18.0%	15.0%	14.0%	13.0%	15.6% CAGR
COGS	9,894.0	11,886	12,500	12,704	14,883	17,233	1700	20060	23069	26298	29717	
COGS % of Sales	79.8%	58.5%	41.1%	54.3%	69.4%	62.2%	52.09	52.0%	52.0%	52.0%	52.0%	
Gross Profit	2,505.0	8,436.0	17,891	10,702	6,552.0	10,472	1569	18517	21294	24275	27431	
Gross Profit Margin %	20.2%	41.5%	58.9%	45.7%	30.6%	37.8%	48.09	48.0%	48.0%	48.0%	48.0%	Fixed
SG&A	2,276.0	2,567.0	2,954.0	3,277.0	3,481.0	3,557.0	364	3875	4055	4236	4426	
SG&A % of Sales	18.4%	12.6%	9.7%	14.0%	16.2%	12.8%	11.29	10.0%	9.1%	8.4%	7.7%	
% Growth	6.8%	12.8%	15.1%	10.9%	6.2%	2%	2.69	6.2%	4.6%	4.5%	4.5%	Guidence, Refinitiv Estimates
EBITDA	3208	9730	19586	12730	8630	13077	1947	23143	26533	30684	35197	
Depreciation	2,860.0	3,760.0	4,660.0	5,340.0	5,570.0	6,199.0	7,42	8,502	9,294	10,644	12,191	Guidence, Refinitiv Estimates
%Growth	11%	32%	24%	13%	-2%	-10%	19.89	14.4%	9.3%	14.5%	14.5%	
Amortization	117.0	106.0				82.00						
%Growth	2%	39%	64%	23%	-95%	-7%	42.39	192.3%				
EBIT	231.0	5,864.0	14,926	7,390.0	3,060.0	6,796.0	1204	14642	17239	20039	23006	
EBIT Margin %	1.9%	28.9%	49.1%	31.6%	14.3%	24.5%	379	38%	39%	40%	40%	
Interest Expense	-419.0	-634.0	-297.0	68.00	-88.00	-64.00	-36	-111	-156	-173	-200	Guidence FY 2022, L5Y Average 2023 and beyond
Other Expenses	-93	-34	-322	-410	11	-514	-1	;				
Pretax Income	-281.0	5,196.0	14,307	7,048.0	2,983.0	6,218.0	11667.	14530.8	17083.7	19866.5	22805.7	
Taxes	19		342	703	280	394	227				4789	
Tax Rate	6.8%	-2.2%	-2.4%	-10.0%	-9.4%	-6.3%	19.509	21.0%	21.0%	21.0%	21.0%	
Net Income	-300.0	5,082.0	13,965	6,345.0	2,703.0	5,824.0	9392.	11479.3	13496.1	15694.6	18016.5	
Profit Margin %	-2.4%	25.0%	46.0%	27.1%	12.6%	21.0%	28.79	29.8%	30.4%	31.0%	31.5%	
Change in Working Capital	125.0	-1,037.0	-1,657.0	729.0	-487.0	-370.0	-422.	-732.6	400.5	-251.4	104.5	Guidence FY 2022, L5Y Average 2024 and beyond
Capital	5,817.0	4,734.0	8,879.0	9,780.0	8,223.0	10,030	1100					Guidence FY 2022, LSY Average 2024 and beyond Guidence and Analyst expectations
Free Cash Flows	(2,484)		9,050	3,679	(80)	2.677	5,77					EBIT-Taxes+D&A-Capex-ΔNonCashNWC
Present Value FCFs	(2,464)	3,939	9,030	3,079	(80)	2,077	3,77	7,339	10,340	13,260	17,213	LBTT-Taxes+D&A-Capex-MORCdSTINVVC
Number of Shares	1,040.0	1,112.0	1,161.0	1,106.0	1,113.0	1,119.0	1,119.	1,119.0	1,119.0	1,119.0	1,119.0	
EPS STIATES	-0.29		12.03	5.74	2.43	5.20	8.3				16.10	
EPS Growth %	-112.2%		163.2%	-52.3%	-57.7%	114.3%	61.39				14.8%	

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Equity value	107499
Debt value	7022
Cost of Debt	0.2%
Tax rate	6.3%
10y Treasury	1.90%
Beta	1.18
Market Return	10.5%
Cost of Equity	12.05%
E/D+E	94%
D/D+E	6%
WACC	11.32%

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		Discour	ted Cash Flow Full			
Assumptions pt1		Assu	mptions pt2			
Growth rate	3.0%	Beta		1.18		
EV/EBITDA Multiple	5.00x		et Return	11.3%		
Cost of Debt	0.23%		y value	107499		
Tax Rate	6.2%		value	7022		
10y Treasury	1.90%					
Period	0	1	2	3	4	5
Free Cash Flows						
EBIT	6,796	12,043	14,642	17,239	20,039	23,006
(Tax)	394	2,275	3,051	3,588	4,172	4,789
D&A	6,281	7,429	8,502	9,294	10,644	12,191
CapEx	10,030	11,000	12,000	13,000	13,000	13,000
ΔNon-cash Work.						
Capital (inc) / dec	(370)	(422)	(733)	401	(251)	(194)
FCF		5,774	7,359	10,346	13,260	17,213
WACC						
Cost of Equity	12.05%					
D/D+E	6%					
E/D+E	94%					
WACC	11.32%					
Terminal Value						
EBITDA						35196.9
Exit Multiple						
(EV/EBITDA)						5
Terminal Value						175,985
Perpetuity Growth						3.0%
Terminal Value						213097
Choose Cell H81, H8.	3, or Average of both	,				194,541
Discounting		1	2	3	4	5
Discount Factor		0.90	0.81	0.72	0.65	0.58
PV of FCF		5,187	5,939	7,500	8,635	10,069
PV of TV						113,801
Enterprise Value	151,131					
Enterprise Value to E	Equity Value					
Cash & Equivilants	8,633.0					
Marketable						
Securities	0					
Short term Debt						
Long term Debt	7022					
Equity Value	152,742					
Sharas						
Shares	4.424					
Outstanding	1,134					
Implied Share Price	\$135					

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Sensitivity Analysis

Variable Tables (Affected by above inputs)

15.6% 5Y Avg. Base Case Revenue Growth

Perpetuity Growth Rate

		2.0%	2.5%	3.00%	3.5%	4.0%
	10.40%	139	143	147	152	158
	11.00%	132	135	139	143	148
WACC	11.32%	128	131	135	138	143
	12.00%	122	124	127	130	134
	12.40%	118	120	123	126	129

Base Case 3%
Base Case 5
Perpetuity
EV/EBITDA Growth TV

Revenue Growth Rate

		12.00%	13.00%	15.00%	17.0%	18.00%
	10.40%	139	140	143	146	147
	11.00%	131	132	135	137	139
WACC	11.32%	127	128	131	133	135
	12.00%	120	121	123	126	127
	12.40%	116	117	120	122	123

15.6% 5Y Avg. Base Case Revenue growth

EV/EBITDA

		4.15	4.575	5	5.75	6
	10.40%	139	143	147	154	156
	11.00%	131	135	139	146	148
WACC	11.32%	127	131	135	142	144
	12.00%	120	123	127	134	136
	12.40%	116	119	123	129	132

Industry Multiples Analysis

US Peers						EV/EBITDA		EV/EBIT Price/Earning				rice/Earnings	nings EV/ Sales				lividend Yield 5 Price/Book Intrinsic		
Identifier		Price (2-16-		E1 (100)															Value
(RIC)	Name :	21)	Иkt Cap (USDm	EV (USDM)	LTM	Current	NTM	LTM	Current	NTM	LTM	Current	NTM	LTM	Current	NTM	Current	Current	Estimate
WDC.OQ	Western Digit	55.87	17,482.71	22,259.71	5.92	11.03	4.47	9.80	21.94	6.47	7.01	26.42	6.36	1.22	1.18	1.01	0.0%	1.46	0.47
MU.O	Micron Techn	96.00	107,498.60	104,940.60	6.61	6.26	7.50	10.50	11.98	12.00	12.90	14.40	16.00	3.51	3.54	2.83	0.4%	2.34	0.56
QCOM.O	Qualcomm Inc	173.00	194,971.00	199,411.00	13.37	13.57	10.77	18.79	15.77	12.10	18.02	17.01	14.27	5.41	5.53	4.38	1.6%	17.17	0.90
INTC.OQ	Intel Corp	48.44	197,199.24	206,887.24	6.51	6.45	7.27	9.83	9.88	12.43	8.86	10.56	13.60	2.77	2.62	2.83	3.0%	2.07	0.75
AMD.OQ	Advanced Mic	121.47	197,676.02	194,381.02	39.34	42.84	23.44	47.63	47.63	25.01	43.38	56.80	29.85	11.05	11.83	7.48		19.56	2.16
TXN.OQ	Texas Instrum	166.17	153,465.82	151,467.82	15.05	17.26	13.43	19.09	19.09	15.10	20.17	22.80	18.19	8.17	8.26	7.48	2.8%	11.52	1.02
NVDA.OQ	NVIDIA Corp	264.95	662,375.00	654,021.00	47.64	55.12	38.70	74.03	68.12	43.01	67.94	75.32	51.00	24.50	26.94	20.13	0.1%	27.86	2.73
Average					19.21	21.79	15.08	27.10	27.77	18.02	25.47	31.90	21.32	8.09	8.56	6.59	0.01	11.71	1.23
Median					13.37	13.57	10.77	18.79	19.09	12.43	18.02	22.80	16.00	5.41	5.53	4.38	0.01	11.52	0.90

Internation	International Peers					EV/EBITDA				EV/EBIT Price/Earnings				EV/ Sales			vidend Yield 5	Intrinsic		
Identifier																				Value
(RIC)	Name	21)		4kt Cap (USDm	EV (USDm)	LTM	Current	NTM	LTM	Current	NTM	LTM	Current	NTM	LTM	Current	NTM	Current	Current	Estimate
GFS.OQ	Globalfound	lri	55.17	29,341.93	28,415.93	15.93	20.73	10.61			27.81			28.31	4.63	4.32	3.81		3.65	1.61
005930.KS	Samsung Ele	ct	62.50	419,536.57		4.95		3.30			6.64	12.37		10.60	1.22	1.52	1.03	2.0%	1.74	0.58
2330.TW	Taiwan Semi	CI	23.20	601,602.71	585,131.54	16.87	14.49	11.60	23.91	23.91	18.47	27.59	26.73	21.03	9.83	10.04	7.85	1.7%	7.57	1.06
Average						12.58	17.61	8.50	23.91	23.91	17.64	19.98	26.73	19.98	5.23	5.30	4.23	0.02	4.32	1.08
Median						15.93	17.61	10.61	23.91	23.91	18.47	19.98	26.73	21.03	4.63	4.32	3.81	0.02	3.65	1.06